



Parts Manual

Mfg. No: 1693017
Landlord, 18HP Hydro and 50" Mower
Deck

1692688 - 50" Mower Deck.....

1693016 - Landlord, 18HP Hydro.....

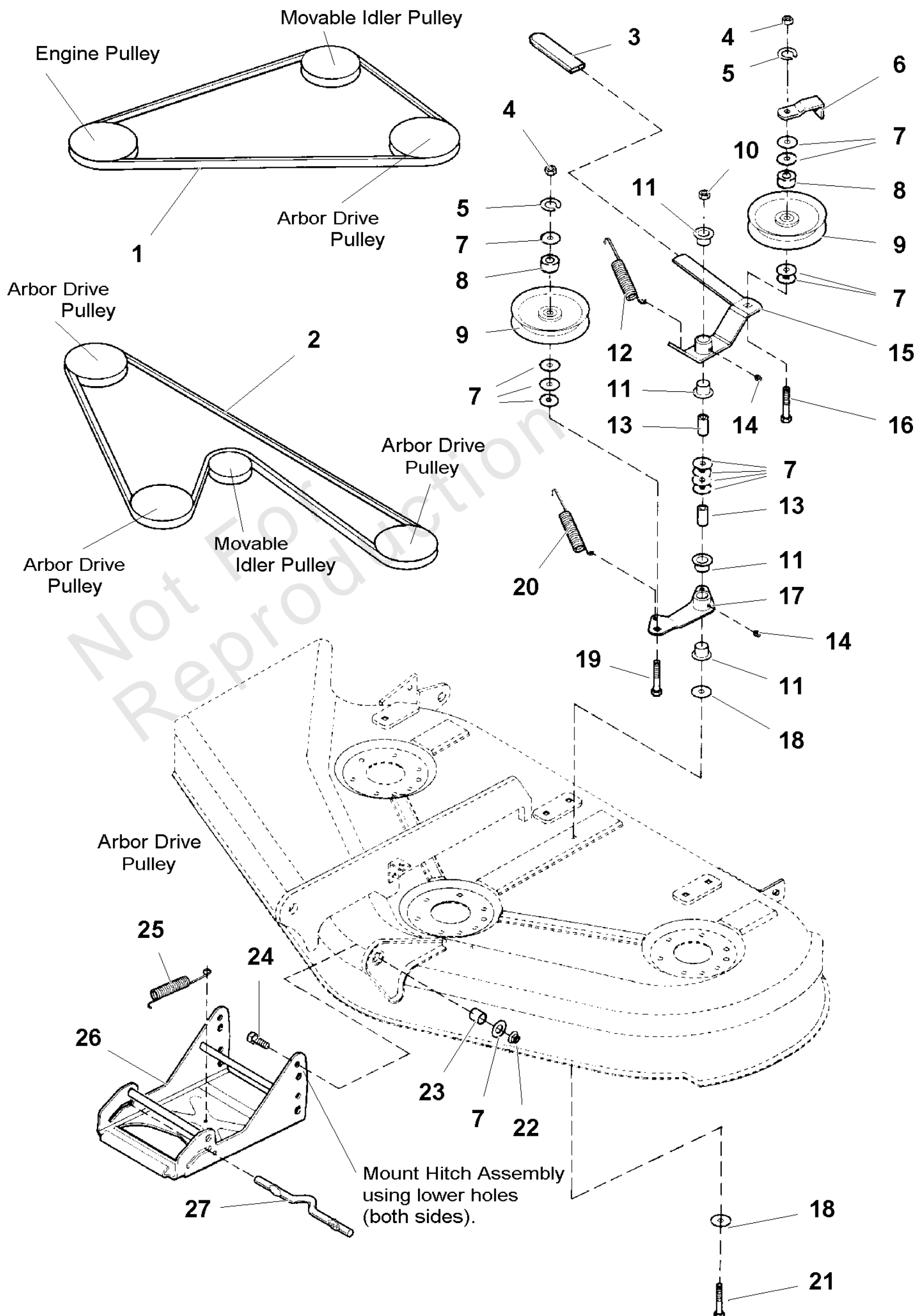
Not For
Reproduction

Model Components	Page
44" & 50" Mower Deck - Clutch & Support Group.	4
44" & 50" Mower Deck - Housing, Arbors & Blades Group.	6
50" Mower Deck - Height Adjustment & Roller Bar Group.	8
Decals - Brand & Model.	10
Decals - Safety & Common.	12
Decals Group - Safety & Common.	14
Electric Lift.	16
Electrical - Lower Harness - Air Cooled Models.	18
Electrical - Main Harness - Air Cooled Models.	20
Engine Group - Electric Clutch - 16HP & 18HP Briggs & Stratton.	22
Foot Controls.	24
Frame & Front Axle.	26
Hand Controls.	28
Hood, Grille & Dash - Air Cooled Models.	30
Seat, Deck & Fuel Tank.	32
Service Parts - Electric Lift Mechanism.	34
Steering.	36
Transmission - Drive, Belt & Control Group.	38
Transmission SERVICE PARTS - Hydro Pump - Hydro Gear BDU 10L-258.	42
Transmission SERVICE PARTS - Transaxle - Hydro Gear 216-3010L CT.	44
Transmission SERVICE PARTS - Transaxle - Hydro Gear 221-3010L.	48
Transmission SERVICE PARTS - Tuff Torq K71E with Diff Lock (1718534_1686897).	52
Wheels & Tires.	58
Torque Specification Chart.	60

44" & 50" Mower Deck - Clutch & Support Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1693017



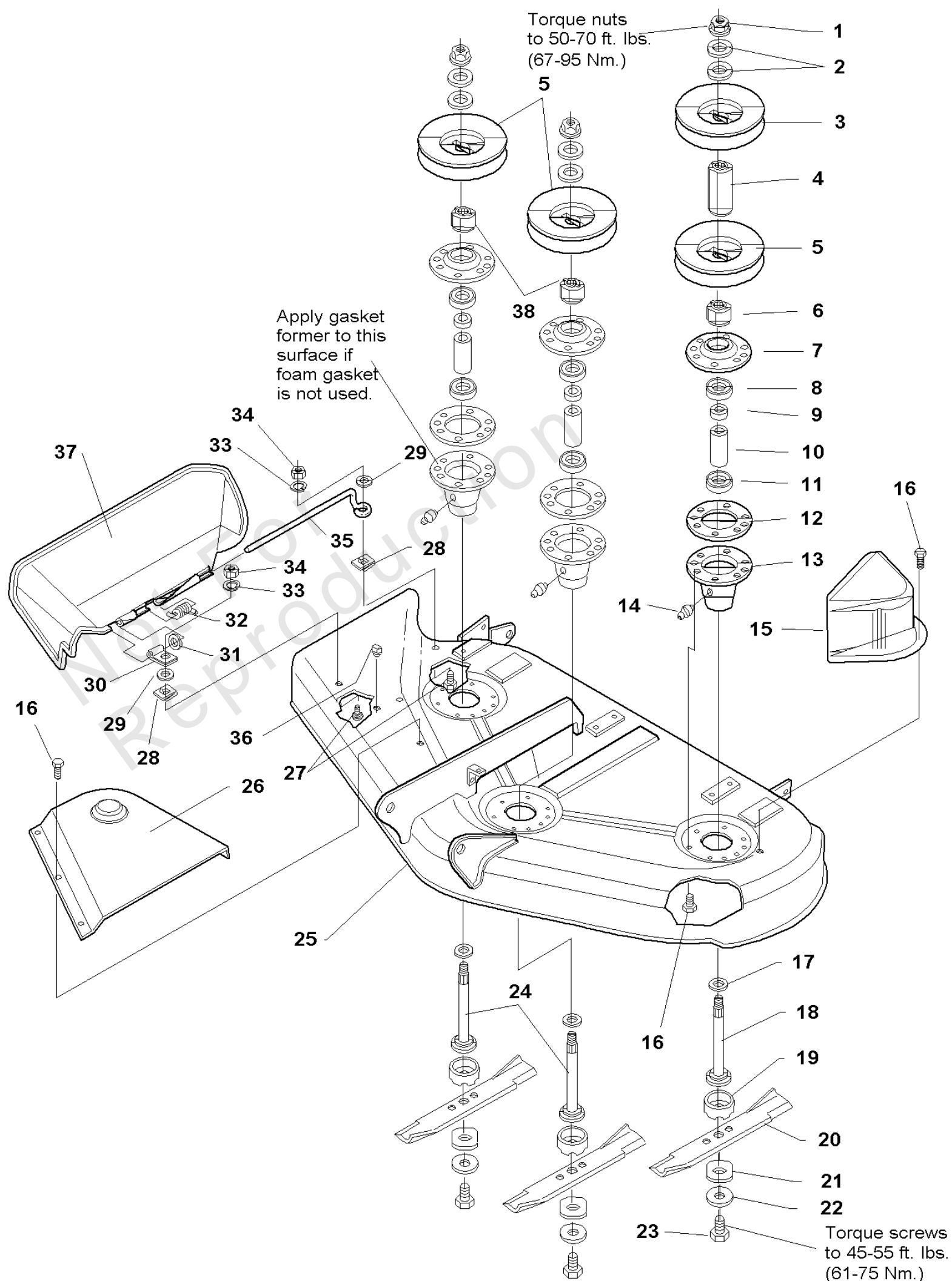
44" & 50" Mower Deck - Clutch & Support Group

REF NO	PART NO	QTY	DESCRIPTION
1	1601672	1	V-BELT, Mower Drive (44" Decks)
1	1707740	1	V-BELT, Mower Drive (50" Decks)
2	1703836	1	V-BELT, Arbor Drive (50" Decks)
2	1721532	1	V-BELT, Arbor Drive (44" Decks)
3	1665835	1	GRIP, Lever
4	1916950	2	NUT, Hex, 3/8-16
5	1916965	2	WASHER, Lock, 3/8
6	1677135A	1	BELT STOP, Idler
7	1924940	14	WASHER, 3/8
8	1666294	2	SPACER
9	1685150	2	PULLEY, Idler (Includes Ref. No. 8)
10	1930645	1	NUT, Hex Flange, 2-Way Lock, 3/8-16
11	1676148	4	BUSHING
12	1715435	1	SPRING
13	1674669	2	SPACER
14	2812808	2	GREASE FITTING
15	1704658	1	LEVER ASSEMBLY, Idler (Includes Ref. Nos. 11 & 14)
16	1960315	1	CARRIAGE BOLT, 3/8-16 x 2
17	1718561	1	LEVER ASSEMBLY, Idler Arm (Includes Ref. Nos. 11 & 14)
18	1924356	2	WASHER
19	1931352	1	CARRIAGE BOLT, 3/8-16 x 1-1/2
20	1656936	1	SPRING
21	1923938	1	CAPSCREW, Hex Head, 3/8-16 x 3-1/2
22	2860681	2	NUT, Hex Alum Insert Lock, 3/8-16
23	2157081	2	SPACER
24	1921969	2	CAPSCREW, Hex Head, 3/8-16 x 1-1/2
25	2156302	1	SPRING
26	1707432A	1	HITCH ASSEMBLY
27	1715759	1	ROD, Latch

44" & 50" Mower Deck - Housing, Arbors & Blades Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1693017



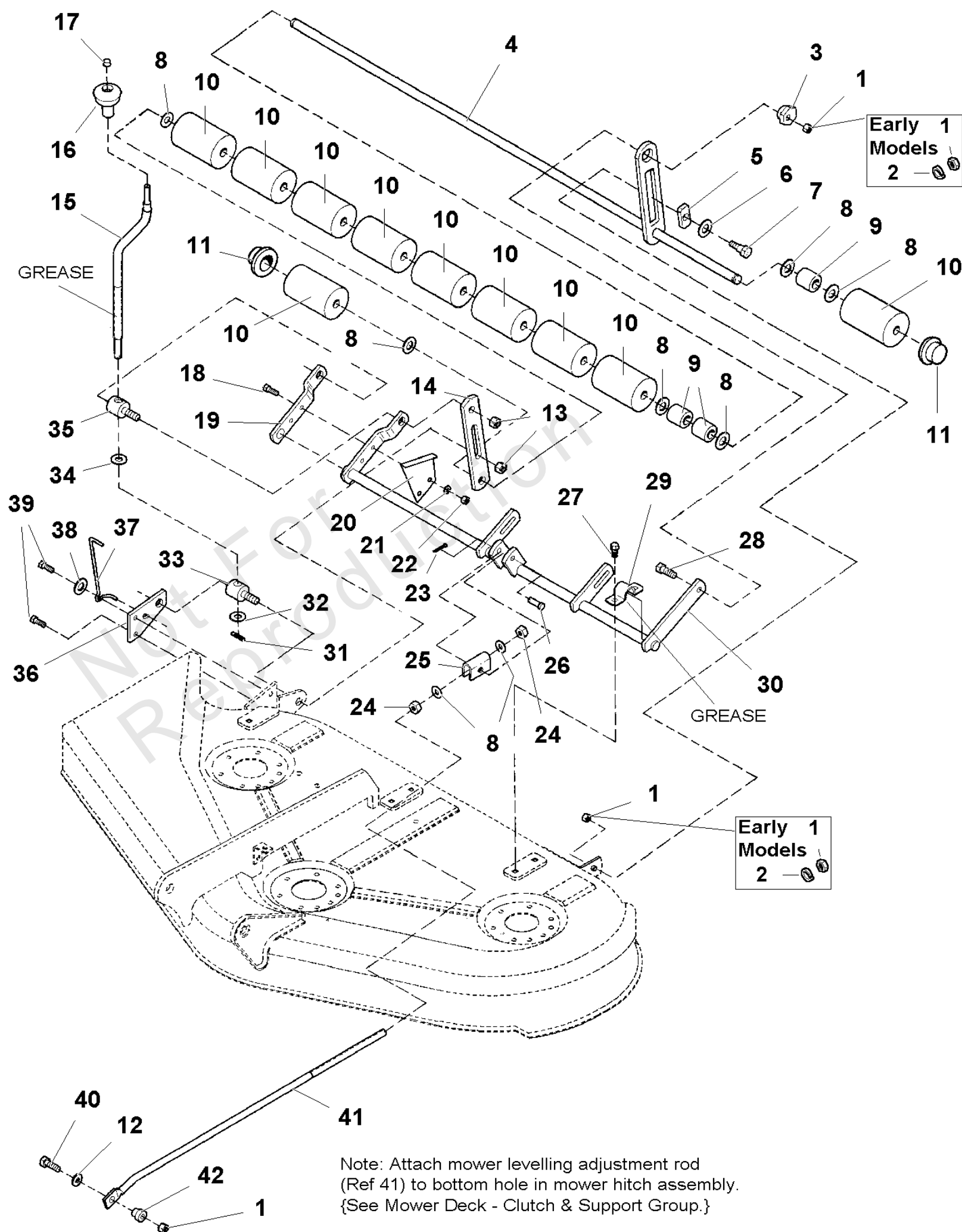
44" & 50" Mower Deck - Housing, Arbors & Blades Group

REF NO	PART NO	QTY	DESCRIPTION
1	1714419SM	3	NUT, Hex Flange, 9/16-18
2	1713675SM	6	WASHER, Bellville .56ID x 1.34 OD x .05T
3	1713161SM	1	PULLEY, LH, .49" Shallow-Groove OD 4.5"
4	1713158SM	1	HUB, Double Pulley
5	1713098SM	3	PULLEY, .49" Shallow-Groove OD 4.25"
6	1713533SM	1	HUB, Double Pulley
7	1655729ASM	3	HOUSING-ARBOR TOP - B
8	2108202SM	3	BEARING, BALL
9	1715724SM	3	SPACER
10	1732544SM	3	SPACER
11	1705897SM	3	BEARING, BALL 11/16X1
12	1707335SM	3	GASKET, Foam
13	1713338ASM	3	HOUSING ASSEMBLY, Arbor Bottom, w/Lube Fitting -(Includes Ref. No. 14)
14	1704314SM	3	LUBE FITTING, .250 DR
15	1720560ASM	1	COVER, Arbor
16	1664847SM	25	CAPSCREW, Hex Head, Taptite, 5/16-18 x 3/4 (Qty. 27 on 50" Decks)
17	1713619SM	3	WASHER
18	1713612SM	1	SHAFT, Arbor (LH)
19	1713196SM	3	SHIELD, Grass, Lower
20	1704100ASM	3	BLADE, Mower, 16-1/8 -(For 44" Deck)
20	1708229ASM	3	BLADE, Mower, 18-1/8 (for 50" Decks)
21	1713089SM	3	WASHER, Hex
22	1656916SM	3	WASHER, SPRING 0.475I
23	2823471SM	3	CAPSCREW, Hex Head, 7/16-14 x 1
24	1713195SM	2	SHAFT, Arbor (Center & RH)
25	1685411SM	1	MOWER HOUSING ASSEMBLY, 44" Mower (Orange)
25	1685495SM	1	MOWER HOUSING ASSEMBLY, 50" Mower (Orange)
25	1687131SM	1	MOWER HOUSING ASSEMBLY, 44" Mower (Black)
25	1687134SM	1	MOWER HOUSING ASSEMBLY, 50" Mower (Black)
26	1703601SM	1	COVER, Arbor
27	1931318SM	2	CARRIAGE BOLT, 1/4-20 x 7/8
28	1960518SM	2	NUT, Push
29	1960353SM	2	WASHER, Plain
30	1704873SM	1	CLAMP, WIRE, .312DIA
31	1919326SM	1	WASHER, 5/16
32	1723938SM	1	SPRING
34	1920397SM	2	NUT, Hex, 1/4-20 ESNA
35	1706709SM	1	ROD-.283DIA 11.65LG D
36	1705115SM	1	PLUG, Hole
37	1705449SM	1	DEFLECTOR, Plastic
38	1713197SM	2	HUB, Pulley

50" Mower Deck - Height Adjustment & Roller Bar Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1693017



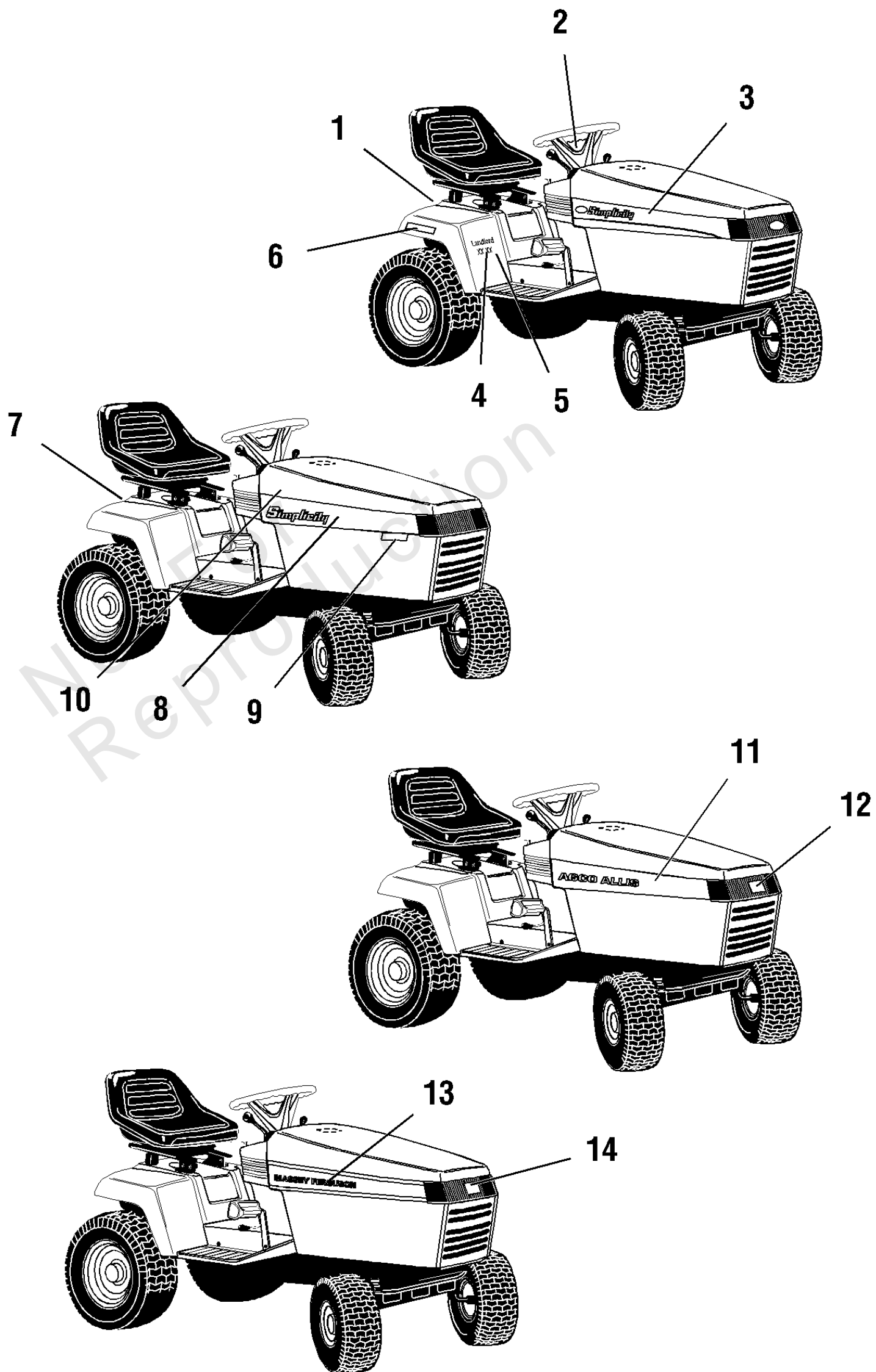
50" Mower Deck - Height Adjustment & Roller Bar Group

REF NO	PART NO	QTY	DESCRIPTION
1	2816950SM	2	NUT, Hex, 3/8-16 (Early Models)
1	2860681SM	3	NUT, Hex Flange, 3/8-16
2	1916965SM	2	WASHER, Lock, 3/8 (Early Models)
3	1704082SM	1	NUT, Hex Adjusting, 11/16
4	1686687SM	1	SHAFT ASSEMBLY, Roller, 50" (Includes Ref. No. 11)
5	1677507SM	1	SLIDE
6	1924361SM	1	WASHER, Plain, 1/2
7	2172622SM	1	BOLT, Shoulder, 3/8-16 X 1.34, 1/2 Shoulder
8	1924366SM	10	WASHER, 5/8
9	1709195SM	3	SPACER, .66 X 7/8 X 1 1/4
10	1668513SM	10	ROLLER, .652 ID, 2.50 OD, 4.10 LG
11	1960520SM	2	NUT, Push, 5/8
12	1924940SM	5	WASHER, 3/8
13	1930644SM	2	NUT-HEX FLANGE 1/2-1
14	1704074ASM	1	BAR, Roller
15	1704094SM	1	CRANK, Cutting Height
16	1714084SM	1	KNOB, Height Crank
17	1960093SM	1	PAL NUT
18	1921977SM	2	CAPSCREW, Hex Head, 5/16-18 x 1 1/4
19	1704083ASM	1	ARM, Rear, Mower, RH
20	1704116ASM	1	BRACKET-HEIGHT OF CUT
22	1931277SM	2	NUT, Hex, 5/16-18 Whiz Lk
23	1960074SM	1	CLIP, HAIR PIN .093DI
24	1915726SM	2	NUT, Hex, Jam, 1/2-13
25	1706645ASM	1	TRUNNION-2.00WD-BLACK
26	2118053SM	1	PIN, Clevis
27	1664847SM	6	CAPSCREW, Hex Head, Taptite, 5/16 -18 x 3/4
28	1931352SM	1	BOLT, Carriage, Short Neck, 3/8-16 x 1-1/2
29	1665374SM	3	STRAP-1.00WD 3.06LG .
30	1731988ASM	1	ARM ASSEMBLY, Mower
31	2816001SM	1	PIN-SPRING .188 X 1.0
32	1704097SM	1	WASHER, Detent
33	1704086SM	1	TRUNNION
34	1960170SM	1	WASHER, 11/32
35	1704087SM	1	TRUNNION, Threaded
36	1704080ASM	1	PLATE, Mower Support
37	1704114SM	1	INDICATOR, Cutting Height
38	1919381SM	1	WASHER, Flat, 5/16
39	1931202SM	1	CAPSCREW, Hex Head, Taptite, 5/16-18 x 1-1/4
40	1922606SM	2	CAPSCREW, Hex Head, 3/8-16 x 1-3/4
41	1722995SM	1	ROD, Adjustment
42	1706644SM	1	SPACER, 3/8X3/4X15/16

Decals - Brand & Model

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1693017



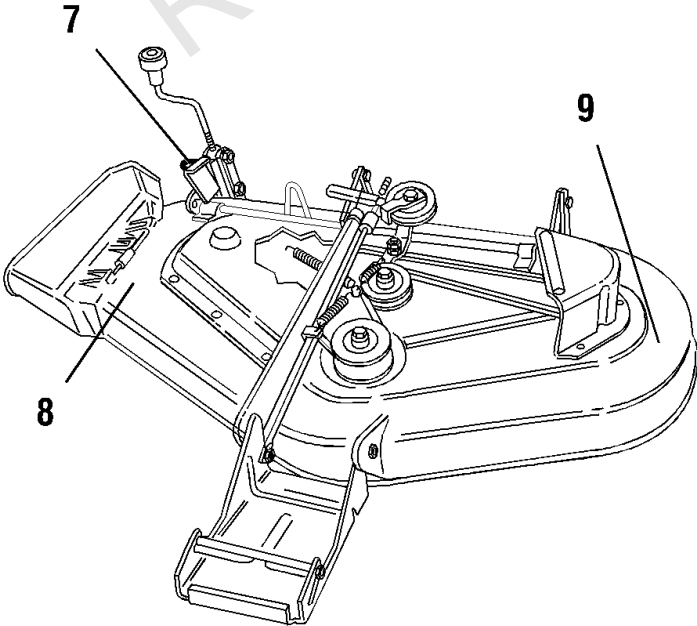
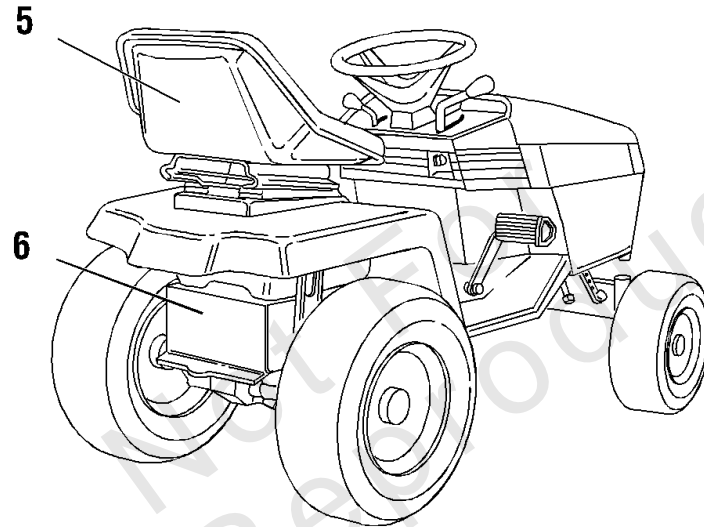
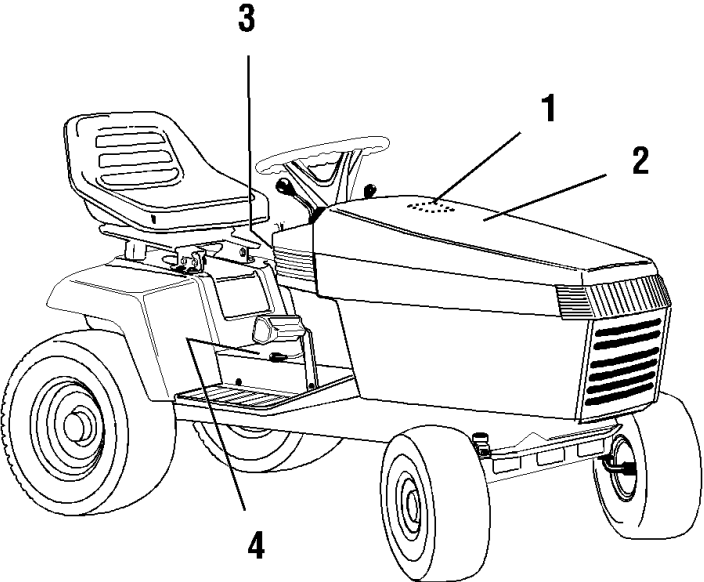
Decals - Brand & Model

REF NO	PART NO	QTY	DESCRIPTION
1	1722551SM	1	DECAL, Simplicity Logo -(Simplicity Orange/Gray Models)
3	1717699SM	1	DECAL, RH Hood Stripe -(Simplicity Orange/Gray Models)
3	1717700SM	1	DECAL, LH Hood Stripe -(Simplicity Orange/Gray Models)
4	1717704	1	DECAL, Landlord -(Simplicity Orange Gray Models)
5	1717705	1	DECAL, Liquid Cooled -(Simplicity Orange/Gray Models)
6	1717313SM	2	DECAL, Automatic Control Traction -(Simplicity Orange/Gray Models)
7	1722551SM	1	DECAL, Simplicity Logo -(Simplicity Orange/Black Models)
8	1714127	1	DECAL, RH Hood, Simplicity Landlord -(Simplicity Orange/Black Models)
8	1714128	1	DECAL, LH Hood, Simplicity Landlord -(Simplicity Orange/Black Models)
9	1713972	2	DECAL, Model, Simplicity Landlord - Hydro 16V-Twin -(Simplicity Orange/Black Models)
9	1722779SM	2	DECAL, Model, Simplicity Landlord - Hydro 18V-Twin -(Simplicity Orange/Black Models)
9	1716180	2	DECAL, Model, Simplicity Landlord - Hydro 17LC -(Simplicity Orange/Black Models)
10	1716690	1	DECAL, Liquid Cooled -(Simplicity Orange/Black Models)
11	1708799SM	1	DECAL, LH Hood - AGCO-Allis 1718VH
11	1708800SM	1	DECAL, RH Hood - AGCO-Allis 1718VH
11	1708801	1	DECAL, LH Hood - AGCO-Allis 1716VH
11	1708802	1	DECAL, RH Hood - AGCO-Allis 1716VH
11	1716562SM	1	DECAL, RH Hood - AGCO-Allis 1717H
11	1716563SM	1	DECAL, LH Hood - AGCO-Allis 1717H
12	1708926SM	2	DECAL, AGCO Allis Logo
13	1714376SM	1	DECAL, RH Hood, Massey Ferguson 2718H
13	1714377SM	1	DECAL, LH Hood, Massey Ferguson 2718H
13	1716564	1	DECAL, RH Hood, Massey Ferguson 2716H
13	1716565	1	DECAL, LH Hood, Massey Ferguson 2716H
14	1714363SM	2	DECAL, Massey Ferguson Logo
2	1717692SM	2	DECAL, Simplicity Icon -(Simplicity Orange/Gray Models)

Decals - Safety & Common

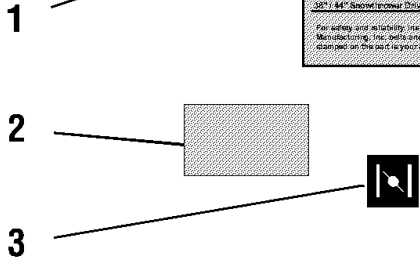
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1693017



LAWN TRACTORS DRIVE BELTS & MOWER BLADES	
Transmission Belt	
Gear	1070104
Hydro	1072135
30" Mower	
Drive Belt	1710854
Mower Blade - Left	1704058
Mower Blade - Right	1704101
44" Mower	
Deck Drive Belt	1070317
Drive Belt	1001092
Mower Belt	1704100
30" / 44" Snowthrower Drive Belt	1070281

For safety and reliability, inspect on genuine Briggs & Stratton Manufacturing, Inc. belts and blades. Your name stamped on this part is your new source of supply.



⚠ DANGER

ROTATING BLADES CUT OFF ARMS AND LEGS
STOP MOWER WHEN CHILDREN ARE NEAR.
NO RIDERS — THEY FALL OFF.

⚠ DANGER

OPERATING ON SLOPES CAN BE DANGEROUS
SEE OPERATOR'S MANUAL.
IF YOU CANNOT BACK-UP A HILL — DO NOT DRIVE ON IT.

⚠ WARNING

AVOID SERIOUS INJURY OR DEATH.

- Read operator's manual(s).
- Know location and function of all controls.
- Keep safety devices (guards, shields, and switches) in place and working.
- Remove objects that could be thrown by the blade.
- Do not mow when children or others are around.
- Never carry children.
- Look down and behind before and while backing.
- Avoid sudden turns.
- If you cannot back up a hill, do not operate on it.
- Go up and down slopes, not across.
- If machine stops going uphill, stop blade and back down slowly.
- Be sure blades(s) and engine are stopped before placing hands or feet near blades(s).
- When leaving machine, shut off engine, remove key, and set the parking brake.

OPERATION

To Start Engine:

- Seat must be occupied, ground speed control lever in neutral, PTO switch off, and clutch/brake pedal depressed.

When Operator Leaves Seat:

- Put ground speed control lever in neutral, turn PTO switch off, and set parking brake.

Traction Control:

- To stop tractor motion, fully depress clutch/brake pedal.
- On hydrostatic drive tractors, movement of traction lever from neutral, in either direction, increases ground speed.

To Operate PTO Clutch:

- The operator must be in the seat.
- To engage PTO, pull PTO switch up.
- To disengage PTO, push PTO switch down.

Choke PTO Switch Ignition Switch

Parking Brake:

To Set Parking Brake

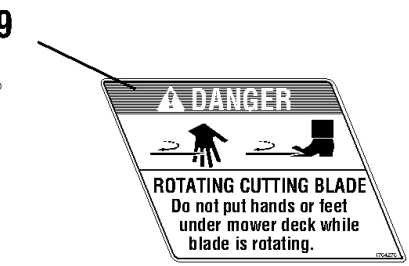
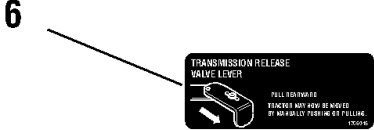
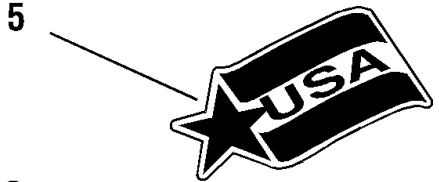
- Pull knob OUT while clutch/brake pedal is depressed.
- Release clutch/brake pedal while holding knob.

To Release Parking Brake

- Depress clutch/brake pedal.
- Push knob IN while clutch/brake pedal is depressed.

Clutch/Brake Pedal Mower Lift Control Lever

DO NOT TOW TRACTOR!
Damage may result to transmission



Decals - Safety & Common

REF NO	PART NO	QTY	DESCRIPTION
1	1713315	1	DECAL, Belt, Blade
2	1720454SM	1	DECAL, Paint -(Simplicity & AGCO-Allis Models)
2	1717449	1	DECAL, Paint -(Massey Ferguson Models)
3	1704466SM	1	DECAL, Choke, Dash (15 HP only)
4	1716528SM	1	DECAL, Operating Instructions
5	1708927	1	DECAL, USA Logo
6	1708918SM	1	DECAL, Transmission Release Valve
7	1721197SM	1	DECAL, Mower Height
8	1704277SM	1	DECAL, Danger (Chute in place)
9	1704276SM	1	DECAL-DANGER DO NOT P
?10	-----	1	DECAL, OPEI
?11	-----	1	I.D. PLATE

Not For
Reproduction

Footnotes:

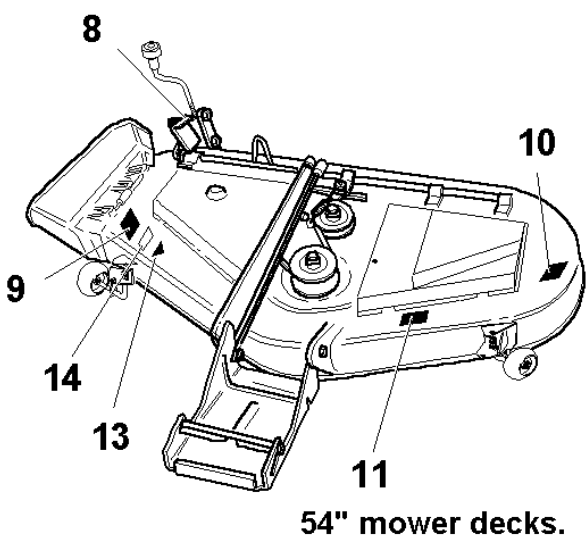
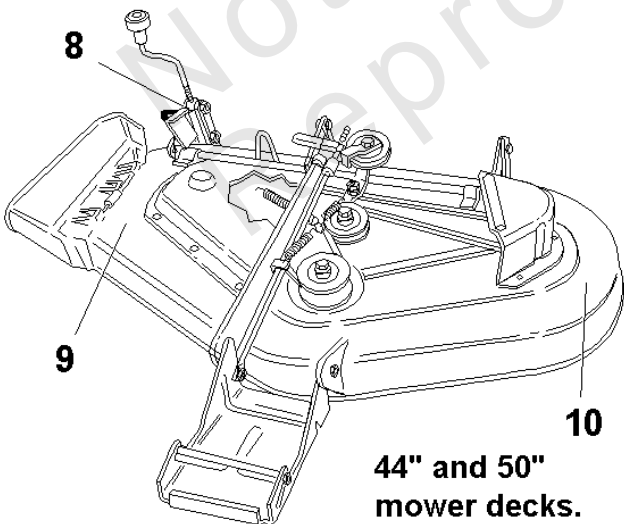
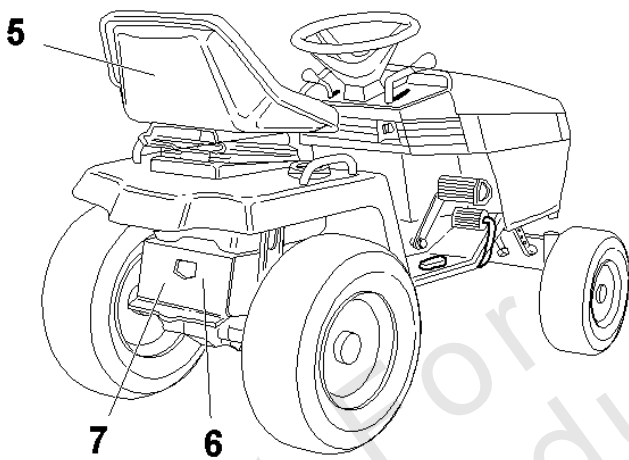
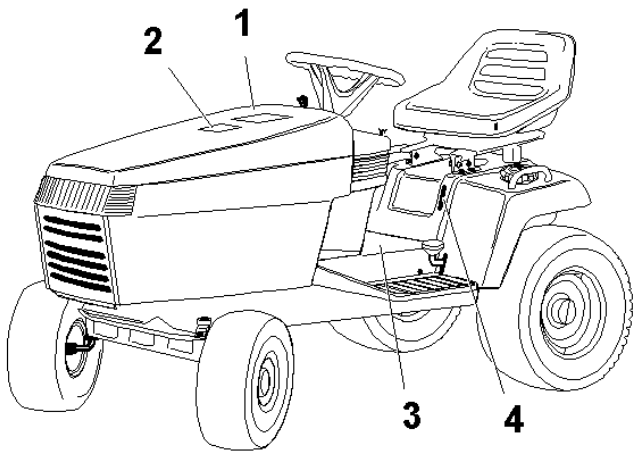
Note:* Not a serviceable part.

Note:* Not a serviceable part.

Decals Group - Safety & Common

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1693017



1

Orange	1716993
Gray, 1 Qt	1716999
Orange, Spray	1716993
Orange, Touch Up	1716998
Orange	1716993
Gray, 1 Qt	1716999
Orange, Touch Up	1716998

2

LAWN TRACTORS	
Drive Belts & Mower Blades	
Conventional Belt	
Part	Part No.
Drive Belt	1716994
Mower Blade - Left	1716995
Mower Blade - Right	1716996
44" Mower Deck	
Drive Belt	1716994
Mower Blade	1716995
50" Mower Deck	
Drive Belt	1716994
Mower Blade	1716995
54" Mower Deck	
Drive Belt	1716994
Mower Blade	1716995

3

THROTTLE

- Always operate in 1st position.
- Shift up at 15-20 mph.

CHOKER

- Choke is only to be used when starting a cold engine.
- Choke should be pulled out after 10 seconds.

IGNITION SWITCH

- Always use the key to start the engine.
- Do not leave the key in the ignition when you leave the tractor.

DIFFERENTIAL LOCK

- Useful on wet or slippery surfaces.
- Do not use on dry pavement.

CRUISE CONTROL

- Useful for long straight runs.
- Do not use on uneven terrain.

ROTATING BLADES CUT OFF ARMS AND LEGS

STOP POWER WHEN HIGH DISK ARE NEAR. DO NOT TOUCH THEM WHEN THEY FALL OFF.

OPERATING ON SLOPES CAN BE DANGEROUS

SEE OPERATOR'S MANUAL. IF YOU CANNOT BACK UP A HILL - DO NOT DRIVE ON IT.

TO OPERATE PTO CLUTCH

- Disengage PTO at all times.
- Do not use PTO when engine is idling.
- Do not use PTO when engine is running.

BRAKE PEDAL

- Use brake pedal to stop the tractor.
- Do not use brake pedal when engine is running.

GROUND SPEED CONTROL

- Useful for controlling speed.
- Do not use on uneven terrain.

CUTTING HEIGHT ADJUST

- Useful for adjusting cutting height.
- Do not use on uneven terrain.

MOWER LIFT LEVER

- Useful for lifting the mower deck.
- Do not use on uneven terrain.

DO NOT TOW TRACTOR!

Damage may result to hydrostatic transmission.

OPERATION

To Start Engine:

- Make sure the tractor is in 1st position.
- Make sure the PTO is disengaged.
- Make sure the engine is in 1st position.

To STOP Engine:

- Put the tractor in 1st position.
- Put the PTO in 1st position.
- Put the engine in 1st position.

When Operator Leaves Seat:

- Put the tractor in 1st position.
- Put the PTO in 1st position.
- Put the engine in 1st position.

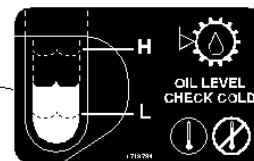
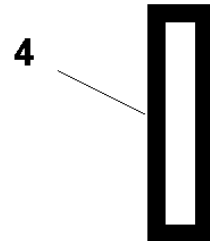
Before Leaving Machine:

- Put the tractor in 1st position.
- Put the PTO in 1st position.
- Put the engine in 1st position.

WARNING

AVOID SERIOUS INJURY OR DEATH

- Do not operate the tractor without the operator's manual.
- Do not operate the tractor without the safety features.
- Do not operate the tractor without the safety features.



Decals Group - Safety & Common

REF NO	PART NO	QTY	DESCRIPTION
1	1722000SM	1	DECAL, Belt & Blade
2	1720454SM	1	DECAL, Paint (Simplicity & AGCO Models)
2	1717449	1	DECAL, Paint (Massey Ferguson Models)
3	1719770SM	1	DECAL, Operating Instructions
3	1721855	1	DECAL, Operating Instructions, Manual Lift Tractors
4	1719751	1	DECAL, Fuel Gauge
5	1708927	1	DECAL, USA Logo
6	1719784SM	1	DECAL, Transmission Oil Fill
7	1719635SM	1	DECAL, Hydro Release Valve
8	1721197SM	1	DECAL, Cutting Height Indicator
9	1704277SM	1	DECAL, Danger (Chute In Place)
10	1704276SM	1	DECAL-DANGER DO NOT P
11	-----	1	DECAL, Patent (Not Serviced)
12	-----	1	DECAL, OPEI (Not serviced)
13	-----	1	I.D. Plates (Not serviced)
14	1722791SM	1	DECAL, Cutting Width (54" Mower Decks)

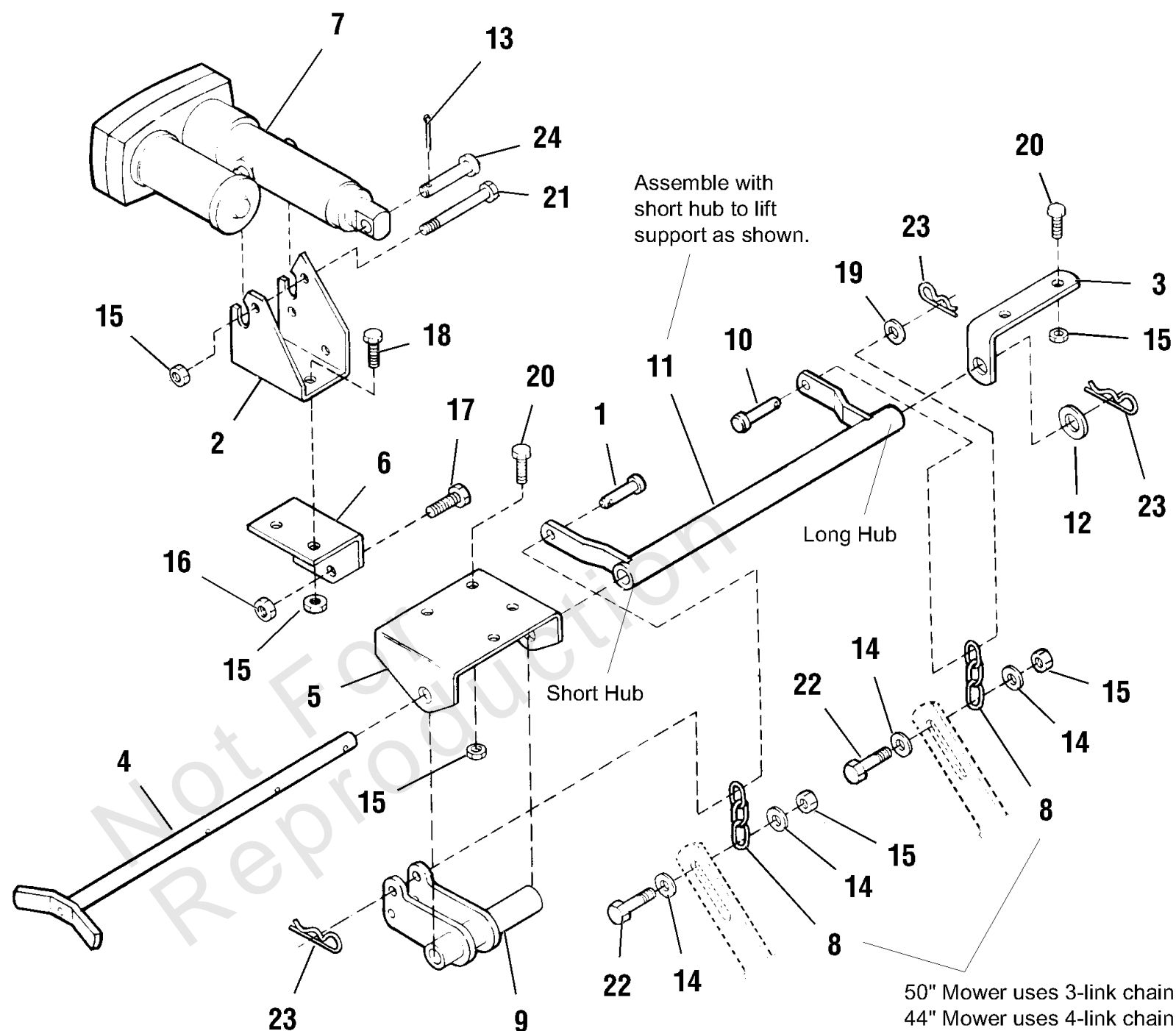
Footnotes:

Note:* Not a Service Part.

Electric Lift

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1693017



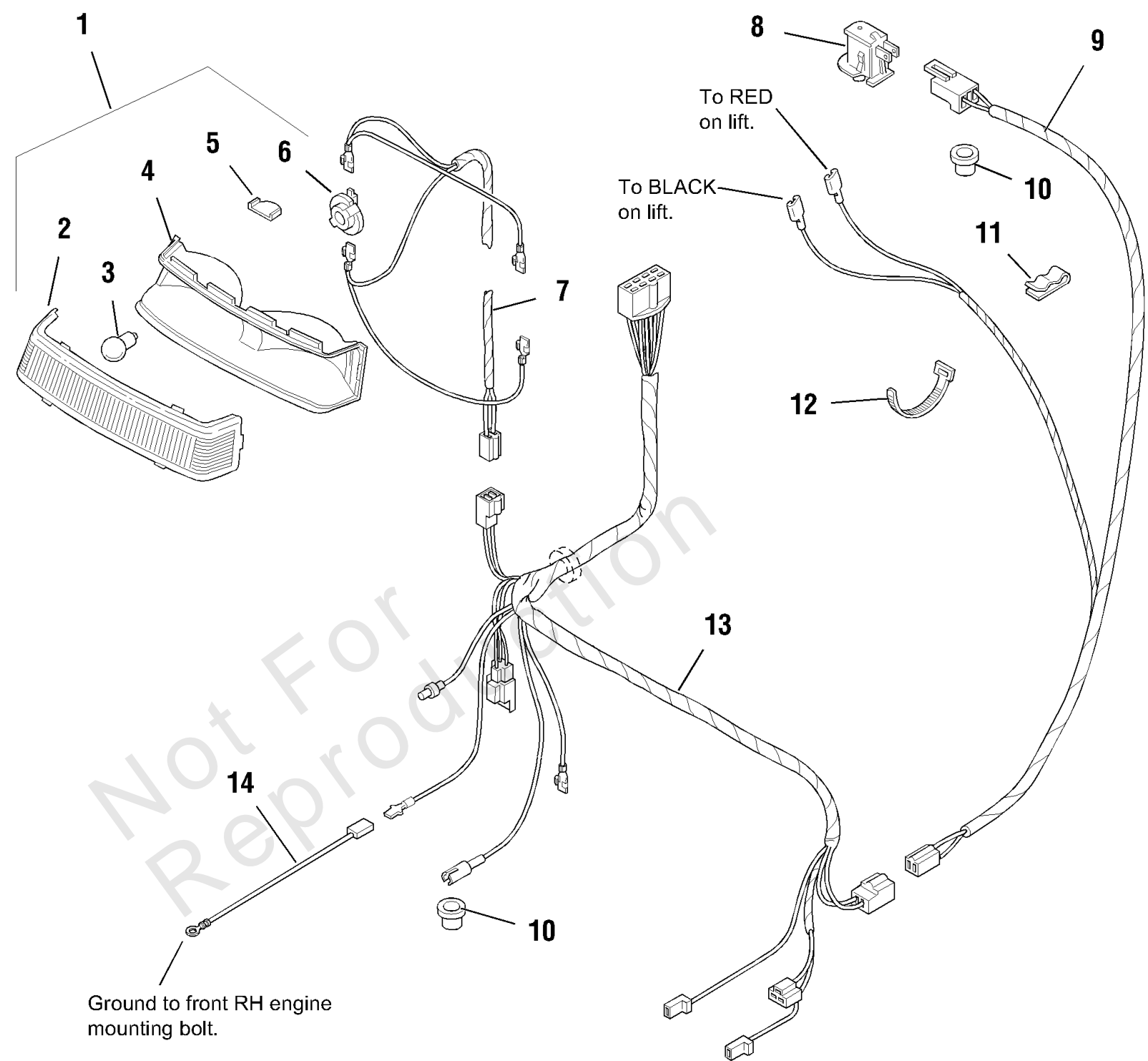
Electric Lift

REF NO	PART NO	QTY	DESCRIPTION
1	1672344SM	1	PIN, Clevis
2	1701877SM	1	BRACKET, Actuator
3	1704712ASM	1	LIFT, Pivot Bracket
4	1706525SM	1	SHAFT ASSY.
5	1706529SM	1	SUPPORT, Lift
6	1714844SM	1	SUPPORT, Actuator
7	1706733SM	1	POWER LIFT ASSY. -(See "Service Parts - Electric Lift Mechanism" illustration and parts list for service parts)
8	1707514ASM	2	CHAIN, 3-Link
8	1708088ASM	2	CHAIN-LINK 06.08 - BL
9	1708291SM	1	LIFT ARM ASSY.
10	1708298SM	1	PIN, Clevis
11	1708299SM	1	LIFT TUBE ASSY.
12	1911386SM	1	WASHER, Plain
13	1918451SM	1	PIN, Cotter
14	1919381SM	4	WASHER, Plain
15	1919438SM	9	NUT, Hex, Lock, ESNA, 5/16-18
16	1919439SM	2	NUT, Hex, Lock, ESNA, 3/8-16
17	1920415SM	2	CAPSCREW, Hex Hd., Whizlock, 3/8-16 x 1
18	703570	2	CAPSCREW, Hex Head, 5/16-18 x 1 1/4
19	1922755SM	1	WASHER, Plain
20	1923325SM	6	CAPSCREW, Hex Hd., 5/16-18 x 7/8
21	1926106SM	1	CAPSCREW, Hex Hd., 5/16-18 x 3-1/4
22	1930570SM	2	CAPSCREW, Hex Hd., 5/16-18 x 1-1/2
23	1960033SM	3	CLIP, Hair Pin
24	1960064SM	1	PIN

Electrical - Lower Harness - Air Cooled Models

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1693017



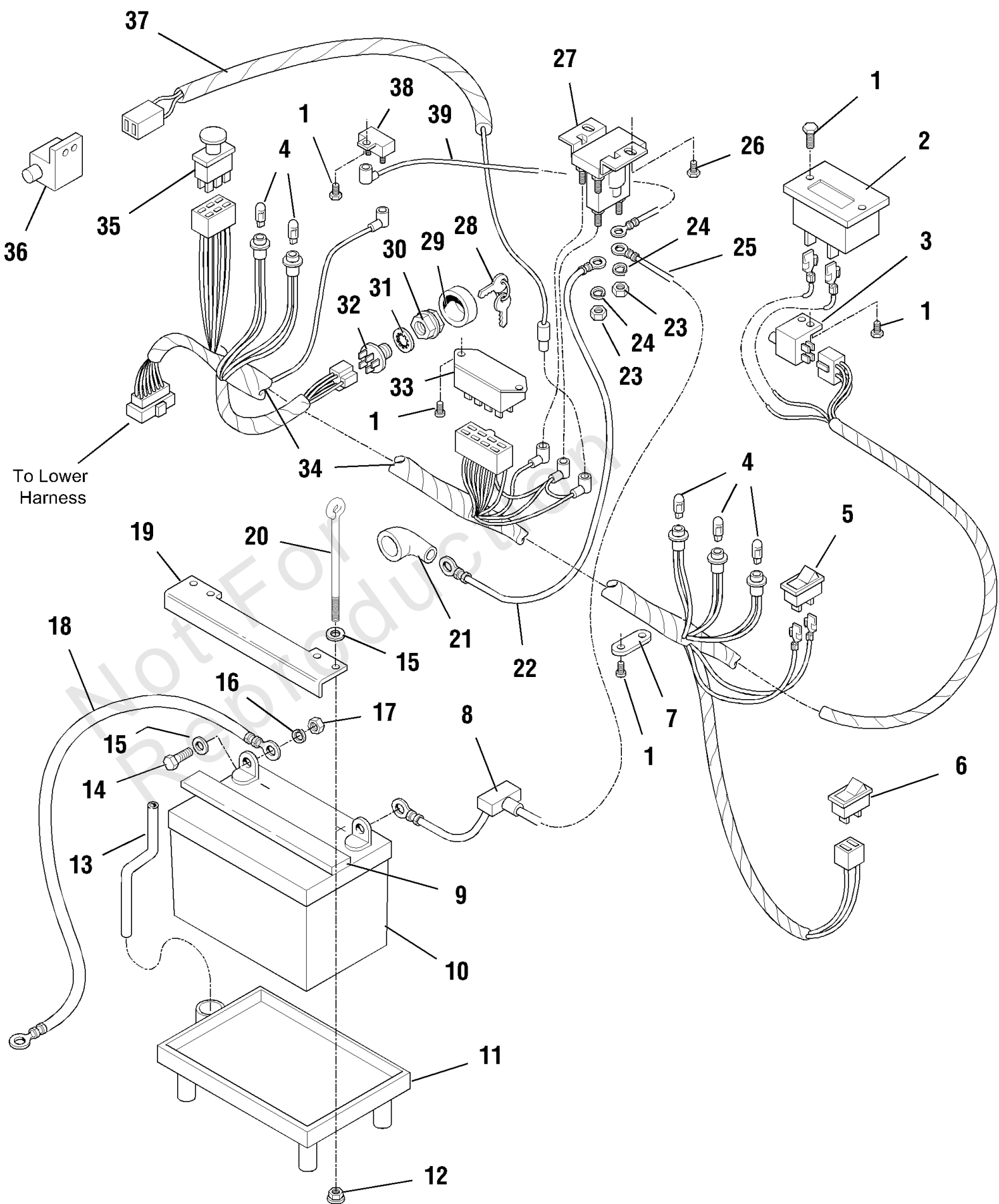
Electrical - Lower Harness - Air Cooled Models

REF NO	PART NO	QTY	DESCRIPTION
1	1703945SM	1	HEADLIGHT ASSY. -(Incl. Ref. Nos. 2, 3, 4, 5 & 6)
2	1703248SM	1	LENS, Headlight
3	1677371SM	2	BULB-HEADLIGHT 1
4	1703249SM	1	BEZEL, Headlight
5	1703946SM	2	HEAT SHIELD
6	1677370SM	2	SOCKET, Bulb
7	1674358SM	1	WIRE ASSY., Headlight
8	1704379SM	1	SWITCH, Seat, Operator Present
9	1715635SM	1	WIRE ASSY., Seat Switch and Lift
10	1701229SM	2	BUSHING, Snap, Small
11	2172434SM	1	CLIP- WIRE DIA .390
12	1701011SM	1	TIE, Cable
13	1707234SM	1	HARNESS ASSY., Lower
14	1707232SM	1	WIRE ASSY., Engine Ground

Electrical - Main Harness - Air Cooled Models

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1693017



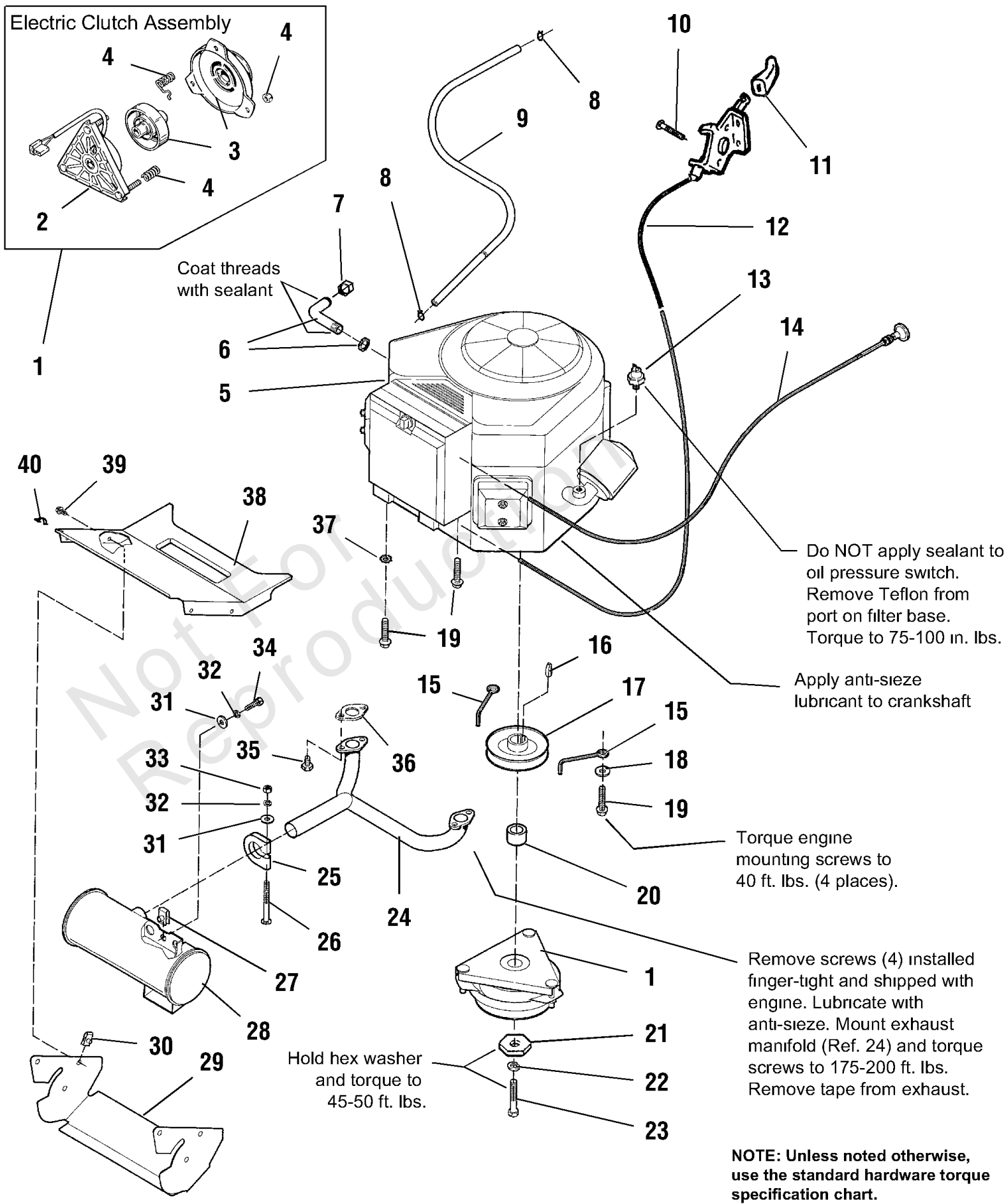
Electrical - Main Harness - Air Cooled Models

REF NO	PART NO	QTY	DESCRIPTION
1	1960369SM	7	SCREW, Plastite, #8-16 x 1/2
2	1715138SM	1	HOURMETER
3	1701521SM	1	SWITCH, Transmission, Neutral Start
4	1676130SM	5	BULB, Indicator Light
5	1703799SM	1	SWITCH, HEADLIGHT
6	1707007SM	1	SWITCH, Lift
7	1704614SM	1	STRAP, Wire Retainer
8	1677296SM	1	BOOT,INSULATOR BATTER
9	1704581	1	VENT, Battery
10	1685215SM	1	BATTERY,12V
11	1704112SM	1	TRAY, Battery
12	1704349SM	2	NUT, Plastic, 1/4-20
13	1612103SM	1	HOSE, Battery, Drain
14	1923341SM	2	CAPSCREW, Hex, 1/4-20 x 3/4
15	1921319SM	4	WASHER, Plain, 9/32
16	1916964SM	2	LOCKWASHER, 1/4
17	1916622SM	2	NUT, Hex, Full, 1/4-20
18	1713163SM	1	CABLE, Battery-to-Ground
19	1718596	1	HOLD DOWN, Battery
20	1704632SM	2	ROD, Battery Hold Down
21	2122023SM	1	COVER, Terminal
22	1668819SM	1	CABLE, Solenoid-to-Starter
23	2820263SM	2	NUT, Hex, 5/16-24
24	1917356SM	2	LOCKWASHER, 5/16
25	1603618SM	1	CABLE, Battery-to-Solenoid
26	1960728SM	2	SCREW, Plastite, 1/4-20 x 5/8
27	1686981SM	1	SOLENOID
28	1714054SM	2	KEY-IGNITIOM W/PLASTI
29	1704346SM	1	COVER, Key Switch
30	1714055SM	1	ADAPTER, Nut
31	1960547SM	1	LOCKWASHER-INTERNAL
32	1686734SM	1	IGNITION SWITCH -(Incl. Ref. No. 29, 30, 31)
33	1703972SM	1	MODULE
34	1715086SM	1	HARNESS, Upper
35	1716332SM	1	SWITCH, PTO, Electric Clutch
36	1704379SM	1	SWITCH
37	1714970SM	1	HARNESS, Wiring
38	1665238SM	1	BREAKER-CIRCUIT
39	1665237SM	1	WIRE ASSY.

Engine Group - Electric Clutch - 16HP & 18HP Briggs & Stratton

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1693017



Engine Group - Electric Clutch - 16HP & 18HP Briggs & Stratton

REF NO	PART NO	QTY	DESCRIPTION
1	1706692SM	1	ELECTRIC CLUTCH (Incl. Ref. Nos. 2, 3, & 4)
2	1707586SM	1	FIELD ASSY., Clutch
3	1706692SM	1	ROTOR ASSY./ARMATURE KIT
4	1707587SM	1	SPRING & NUT KIT
5	-----		ENGINE 16 HP Briggs & Stratton (Vanguard Model 303777)
5	-----		ENGINE 18 HP Briggs & Stratton (Vanguard Model 350777)
6	1704343SM	1	DRAIN, Oil
7	1667346SM	1	CAP, Oil
8	2860112SM	2	CLAMP, Hose
9	1718678SM	1	HOSE, Fuel, 45.5" Long
10	1960536SM	1	SCREW, HEX WSHR HD PL
11	1713846SM	1	KNOB, Throttle
12	1714068SM	1	THROTTLE & CABLE ASSY.
13	1703956SM	1	SWITCH,OIL PRESSURE,
14	1704344SM	1	CABLE, Choke Control
15	1704419SM	2	BELT STOP
16	2171241SM	1	KEY, Hi-Pro
17	1713187SM	1	PULLEY ASSY.
18	1924940SM	2	WASHER, Plain, 13/32
19	1930598SM	4	SCREW, Taptite, 3/8-16 x 1-1/2
20	1708587SM	1	SPACER
21	1708264SM	1	WASHER, HEX, 0.453ID
22	1918199SM	1	LOCKWASHER, 7/16
23	1960458SM	1	CAPSCREW, 7/16-20 x 4
24	1703986SM	1	MANIFOLD, Exhaust
25	1676183SM	1	CLAMP, Muffler
26	1931342SM	1	CARRIAGE BOLT, 5/16-18 x 2-3/4
27	1935255SM	1	NUT, SPEED, 5/16-18 L
28	1703971SM	1	MUFFLER ASSY.
29	1704357SM	1	DUCT, Lower Muffler
30	1960368SM	4	NUT, Pal, 1/4-20
31	1919326SM	2	WASHER, 5/16
32	1917356SM	2	LOCKWASHER, 5/16
33	1917372SM	1	NUT, Hex, Full, 5/16-18
34	703570	1	CAPSCREW, Hex Head, 5/16-18 x 1 1/4
35	1960407SM	4	SCREW, Metric
36	-----		GASKET
37	2820427SM	1	LOCKWASHER, External Tooth
38	1707334SM	1	DUCT, Upper Muffler
39	1960295SM	4	SCREW, Flange Whiz, 1/4-20 x 5/8
40	2834683SM	1	CLIP

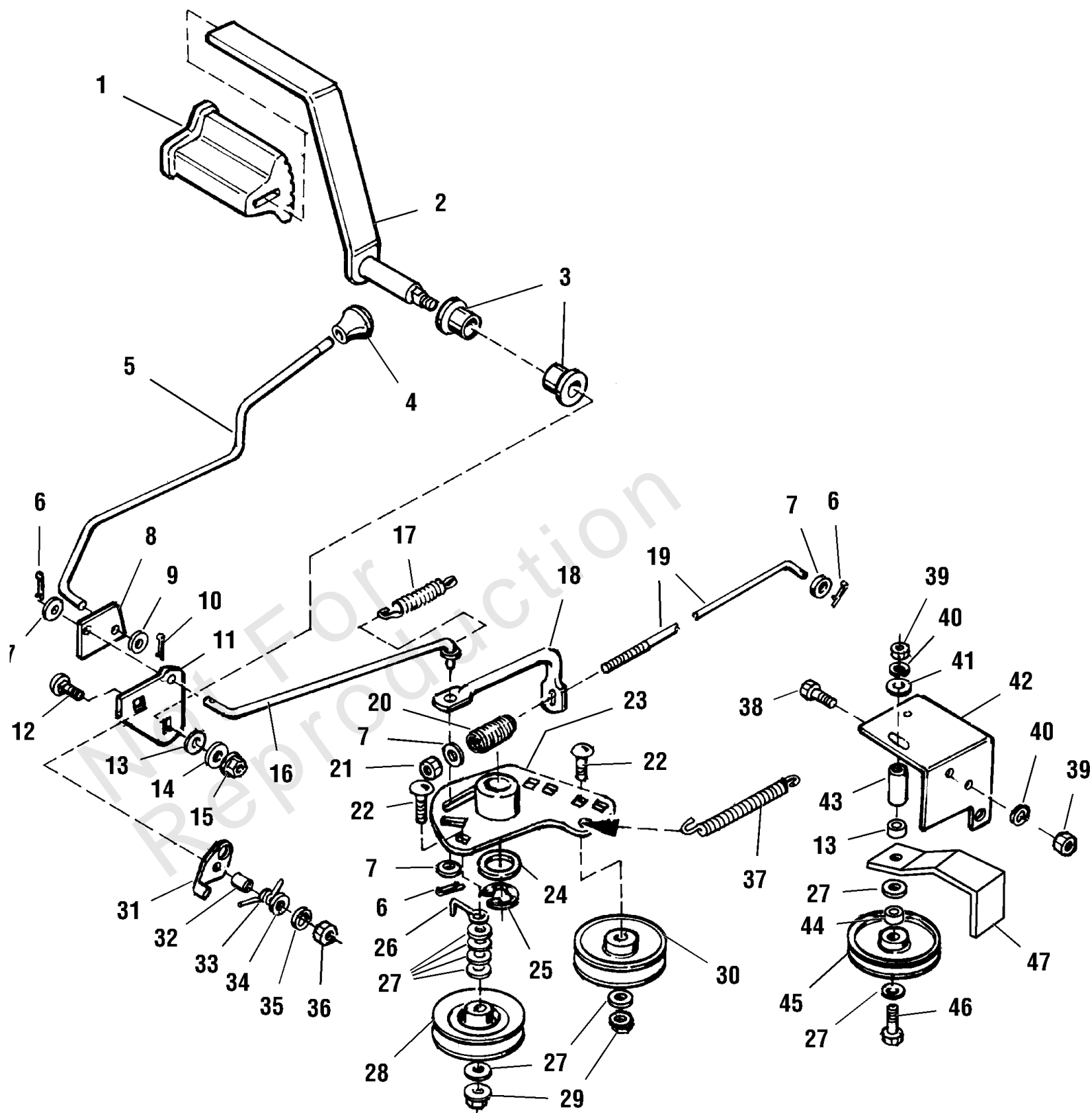
Footnotes:

Note:* See your local Briggs & Stratton distributor for parts and service.

Foot Controls

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1693017



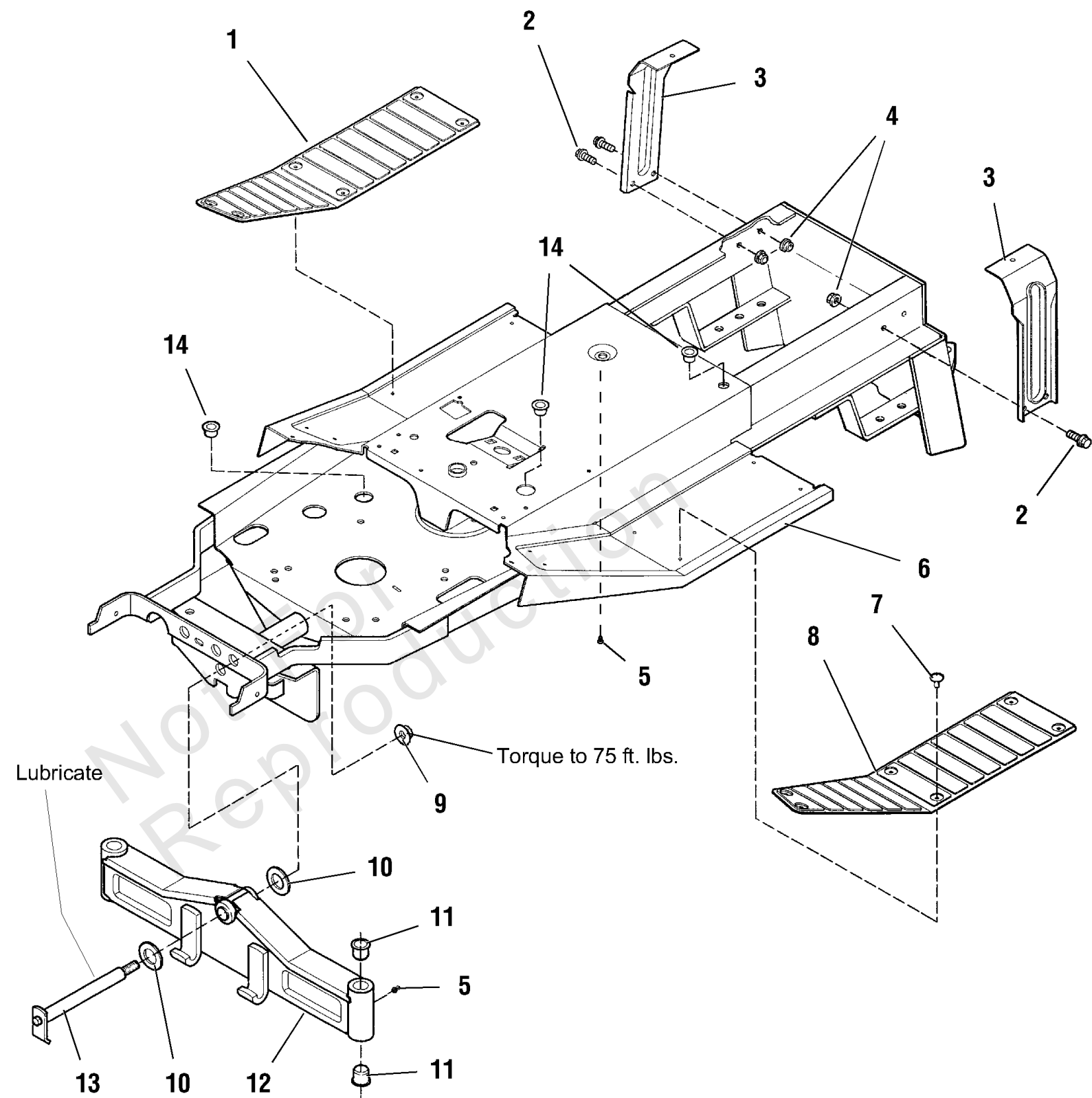
Foot Controls

REF NO	PART NO	QTY	DESCRIPTION
1	1718944SM	1	PAD, Brake Pedal Assy.
2	1704295SM	1	BRAKE PEDAL ASSY.
3	1663114SM	2	BUSHING, Plastic
4	1713855SM	1	KNOB
5	1713480SM	1	ROD, Parking Brake
6	1918447SM	3	COTTER PIN
7	1919326SM	4	WASHER, 5/16
8	1704429SM	1	CAM, Parking Brake
9	1921319SM	1	WASHER, Plain, 1/4
10	1923360SM	1	COTTER PIN, 1/16 x 3/4
11	1709951SM	1	ARM, Brake Pedal Assy.
12	1960223SM	1	BOLT-RD HD SH SQ NK 5
13	1922755SM	2	WASHER, Plain, 3/8
14	1922611SM	1	WASHER, 13/32 x 1-1/4 x 1/16
15	1919438SM	1	NUT, Hex Nyloc, 5/16-18
16	1709895SM	1	ROD, Clutch
17	2156302	1	SPRING
18	1709896SM	1	ARM ASSY., Brake
19	1714862SM	1	ROD, Brake
20	1709097SM	1	SPRING
21	1919439SM	1	NUT, Hex, Esna, 3/8-16
22	1931353SM	2	CARRIAGE BOLT, 3/8-16 x 1-3/4
23	1709903SM	1	IDLER ARM ASSY.
24	1960020SM	1	WASHER, Plain, 21/32
25	1704420SM	1	KLIP RING, 5/8
26	1709863SM	1	BELT STOP
27	1924940SM	12	WASHER, Plain, 3/8
28	2174561SM	1	PULLEY, V, Idler
29	1928352SM	2	NUT, Hex, Flange, Whiz, 3/8-16
30	1721133SM	1	PULLEY, IDLER
31	1709950SM	1	SWITCH, Actuator
32	1720526SM	1	SPACER
33	1709974SM	1	SPRING, Tension
34	1960044SM	1	WASHER-0.312(0.33IDX1
35	1917356SM	1	LOCKWASHER, 5/16
36	1917372SM	1	NUT, Hex, Full, 5/16-18
37	1666759SM	1	SPRING, Drive
38	1921210SM	2	CAPSCREW, Hex Hd., 3/8-16 x 1
39	1916950SM	3	NUT, Hex, 3/8-16
40	1916965SM	3	LOCKWASHER, 3/8
41	1919384SM	1	WASHER-0.375(0.44IDX1
42	1714865SM	1	BRACKET, Idler
43	2172453SM	1	SPACER, 25/64 x 1 x 1-7/32
44	1666294SM	1	SPACER, 3/8 x 43/64 x 29/64
45	1715494SM	1	PULLEY
46	1922918SM	1	CAPSCREW, Hex Hd., 3/8-16 x 3-1/4
47	1677135ASM	1	GUARD, Spring "L"

Frame & Front Axle

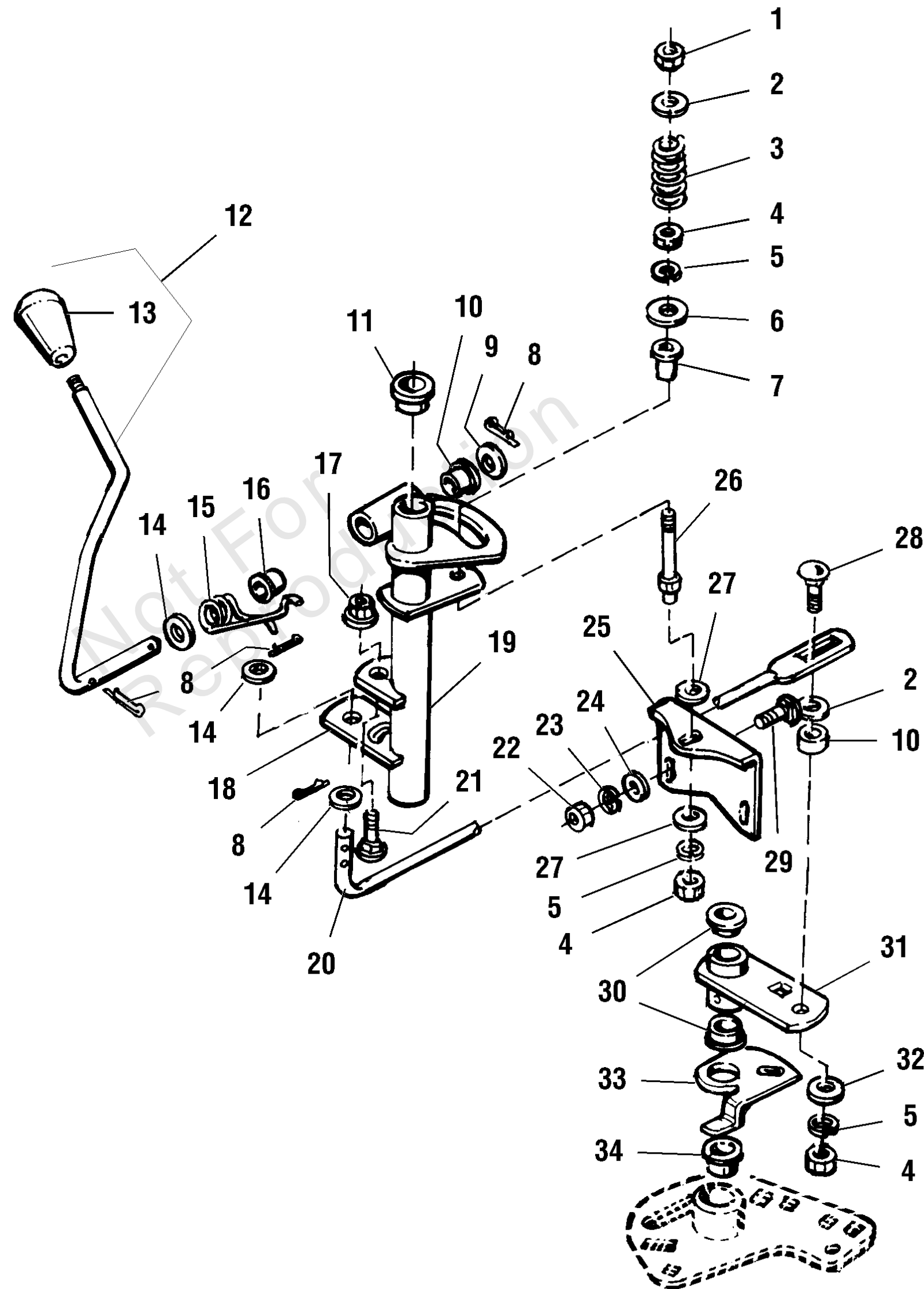
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1693017



Frame & Front Axle

REF NO	PART NO	QTY	DESCRIPTION
1	1704310SM	1	PAD, Footrest, RH
2	1934654SM	4	CAPSCREW, Hex Whizlock, 3/8-16 x 1
3	1703968SM	2	SUPPORT, Seat
4	1919439SM	4	NUT, Hex, Esna Lock, 3/8-16
5	1704314SM	3	LUBE FITTING, .250 DR
6	1714719	1	FRAME ASSY.
6	1715745SM	1	FRAME ASSY. -(Liquid Cooled Models)
7	1704351SM	12	FASTENER, Panel
8	1704311SM	1	PAD, Footrest, LH
9	1960270SM	1	NUT, Hex, Full Lock, 3/4-16
10	2860530SM	2	WASHER, Special
11	2176440SM	4	BUSHING-0.765IDX
12	1703475ASM	1	AXLE ASSY., Front
13	1718856SM	1	AXLE PIVOT ASSY.
14	1701229SM	3	BUSHING, Snap



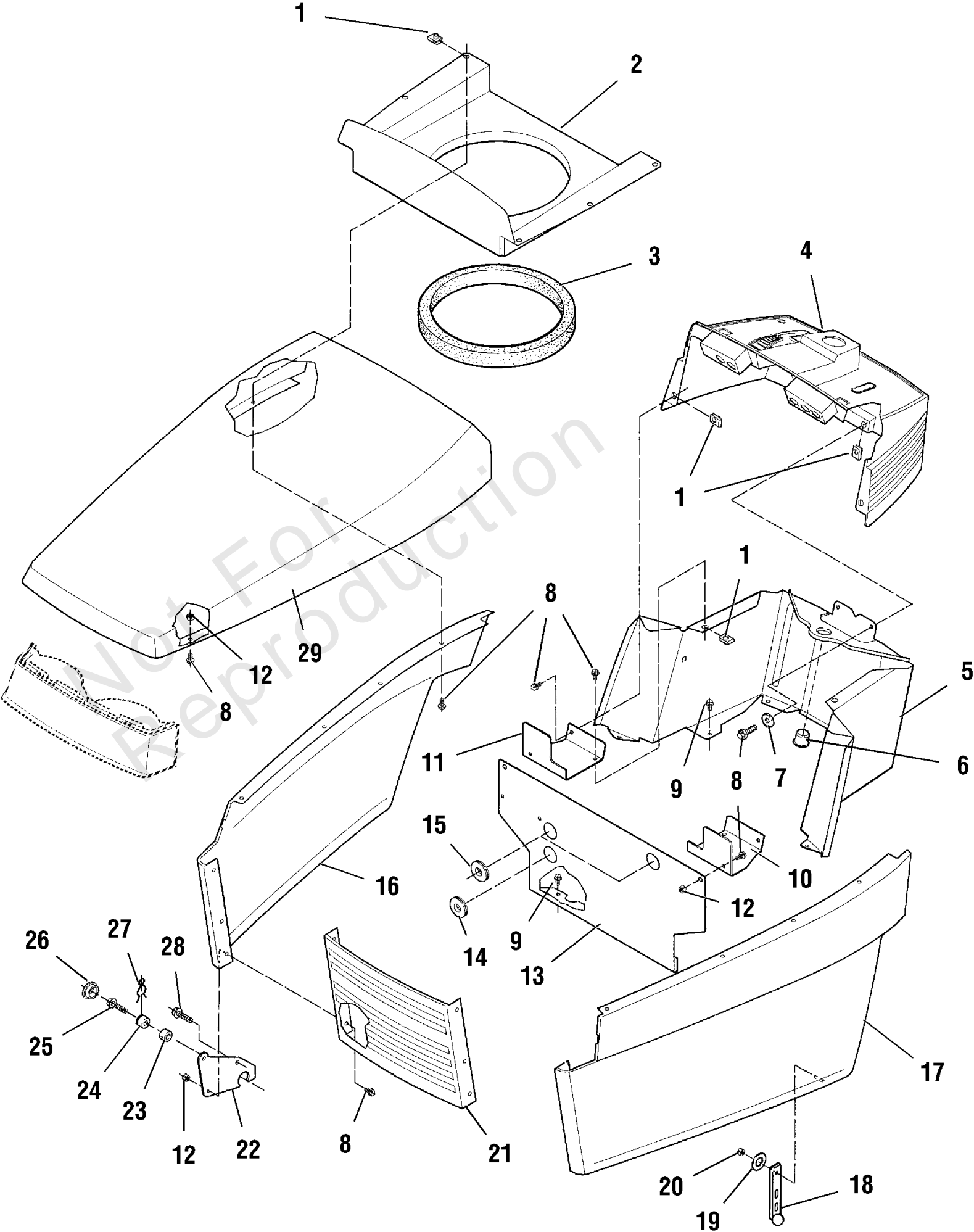
Hand Controls

REF NO	PART NO	QTY	DESCRIPTION
1	1919438SM	1	NUT, Hex, Nylon Lock, 5/16-18
2	1919381SM	2	WASHER
3	1677746SM	1	SPRING
4	1917372SM	3	NUT, Hex, Full, 5/16-18
5	1917356SM	4	LOCKWASHER, 5/16
6	1709140SM	1	WASHER, Special
7	1709043SM	1	SPACER
8	1918447SM	4	COTTER PIN
9	1960206SM	1	WASHER
10	1703900SM	1	SPACER
11	2176440SM	1	BUSHING-0.765IDX
12	1685700SM	1	LEVER, Shift -(Incl. Ref. No. 13)
13	1713843SM	1	KNOB, Shift Lever
14	1924361SM	3	WASHER
15	1713100SM	1	SPRING, Torsion
16	1704428SM	2	BUSHING, Plastic, 1/2
17	1960339SM	1	NUT, Hex, Flange Lock, 3/8-16
18	1715254SM	1	LEVER, Shift Adjuster
19	1715256SM	1	SHIFT LEVER ASSY.
20	1715263SM	1	SHIFT ROD, Front
21	1931350SM	1	BOLT, RD HD SH SQ NK
22	1916622SM	2	NUT, Hex, Full, 1/4-20
23	1916964SM	2	LOCKWASHER, 1/4
24	1921319SM	2	WASHER, Plain, 1/4
25	1704620SM	1	BRACKET, Tension
26	1709211	1	STUD
27	1960044SM	2	WASHER-0.312(0.33IDX1
28	1960223SM	1	BOLT-RD HD SH SQ NK 5
29	1931317SM	2	CARRIAGE BOLT, 1/4-20 x 3/4
30	1663114SM	2	BUSHING, Plastic
31	1715261SM	1	PIVOT ASSY., Shift
32	1919326SM	1	WASHER, 5/16
33	1715262SM	1	LEVER, Lockout
34	1709894SM	1	BUSHING, Plastic

Hood, Grille & Dash - Air Cooled Models

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1693017



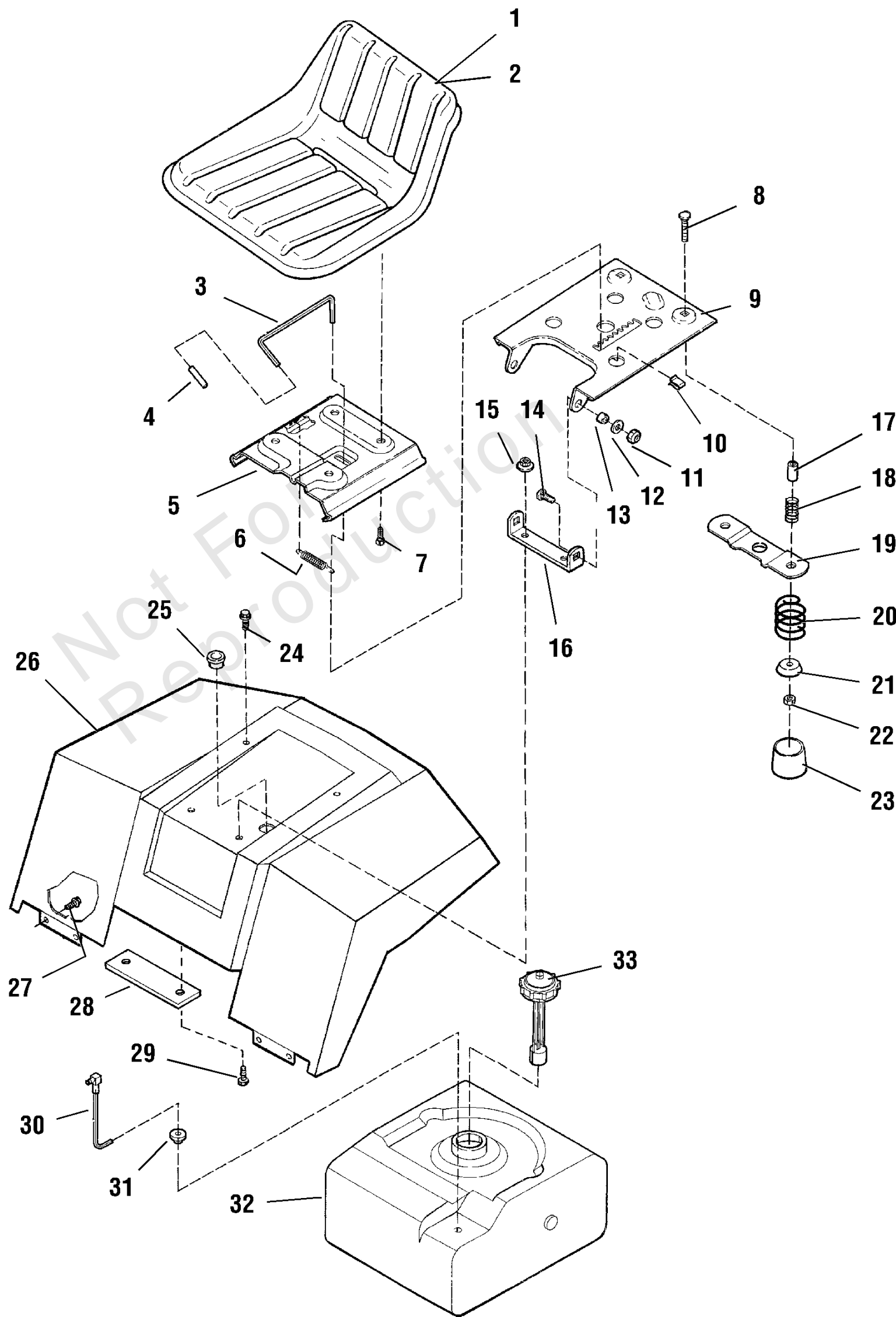
Hood, Grille & Dash - Air Cooled Models

REF NO	PART NO	QTY	DESCRIPTION
1	1960368SM	10	PAL NUT, 1/4-20
2	1707325SM	1	AIR DUCT
3	1707326SM	1	SEAL, Air Duct
4	1686642SM	1	DASH ASSY.
5	1715755SM	1	DASH, Lower
6	2176440SM	1	BUSHING-0.765IDX
7	1921319SM	2	WASHER, Plain, 1/4
8	1960295SM	18	CAPSCREW, Whizlock, 1/4-20 x 5/8
9	1925003SM	8	SCREW, Taptite, 1/4-20 x 1/2
10	1719845SM	1	SUPPORT, Bulkhead, LH
11	1719978SM	1	SUPPORT, Bulkhead, RH
12	1920397SM	10	NUT, Hex, Full Lock, 1/4-20
13	1722006SM	1	BULKHEAD
14	1704927SM	1	GROMMET, Wire Harness
15	1704342SM	1	GROMMET, Bulkhead
16	1704878CSM	1	SIDE PANEL ASSY., RH, Orange
16	1704878DSM	1	SIDE PANEL ASSY., RH, Red
17	1704879CSM	1	SIDE PANEL ASSY., LH, Orange
17	1704879DSM	1	SIDE PANEL ASSY., LH, Red
18	2171600SM	2	STRAP, Hood
19	1960096SM	2	WASHER, Special
20	1933896SM	2	NUT, Hex, Lock, Nylon #10-24
21	1721203SM	1	GRILLE
22	1716128SM	2	HINGE, Hood
23	1705249SM	2	SPACER
24	1705248SM	2	PIVOT, Hood
25	1960373SM	2	SCREW, Taptite, 5/16-18 x 1
26	1704626SM	2	SPACER, Hood
27	1704628SM	2	CLIP, Hairpin
28	1930601SM	2	SCREW, Taptite, 5/16-18 x 5/8
29	1703240SM	1	HOOD, Orange
29	1729505SM	1	HOOD, Red

Seat, Deck & Fuel Tank

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1693017



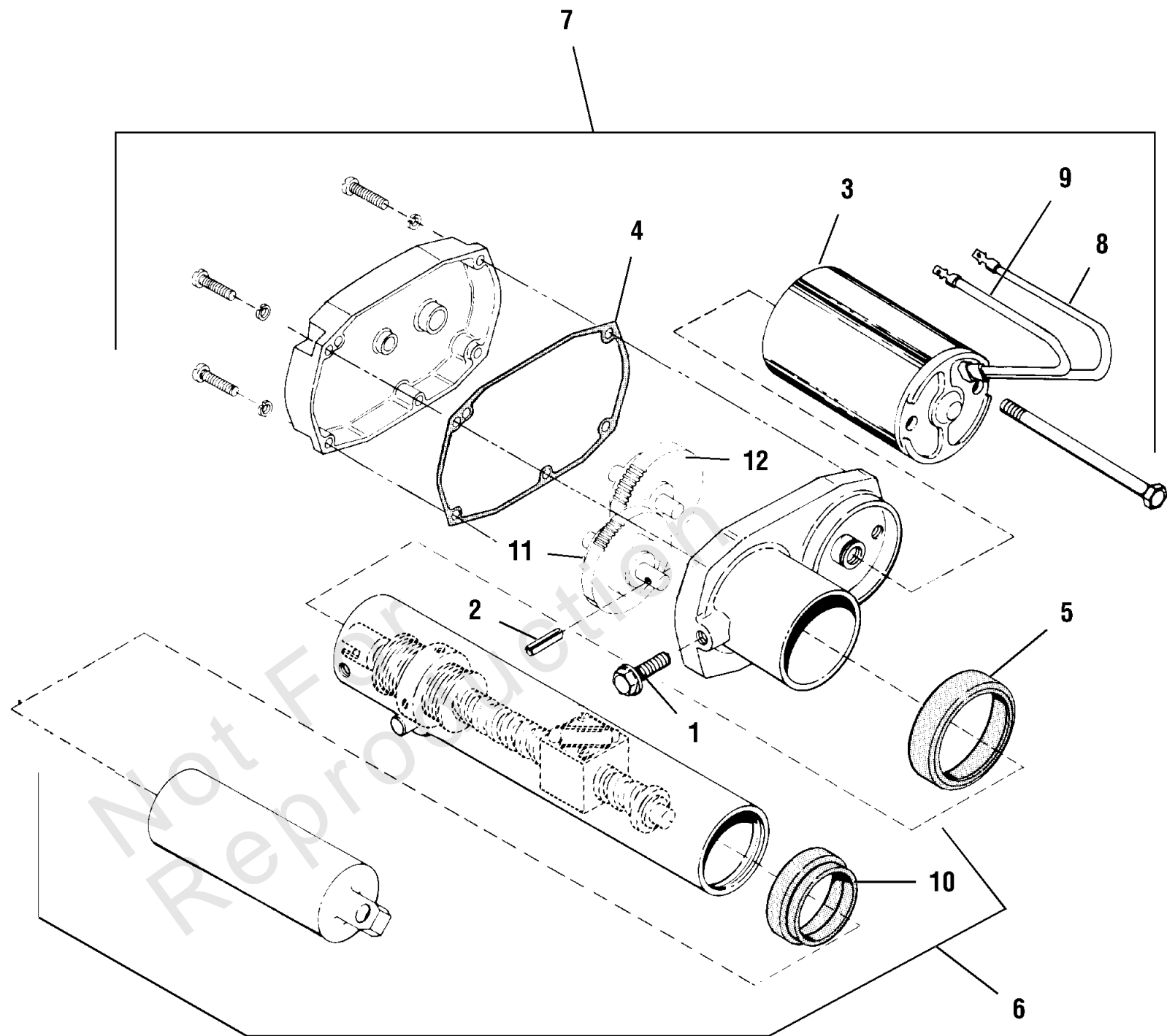
Seat, Deck & Fuel Tank

REF NO	PART NO	QTY	DESCRIPTION
1	1687020SM	1	MILSCO SEAT SERVICE K
2	1714483SM	1	COVER, Seat
3	1719712SM	1	LEVER, Seat Release
4	1704723SM	1	HANDLE, Grip
5	1714441SM	1	BRACKET, Seat Slide
6	1707137SM	1	SPRING
7	1931648SM	4	BOLT, Hex, Whizlock, 5/16-18 x 5/8
8	1931339SM	2	CARRIAGE BOLT, 5/16-18 x 2
9	1709307SM	1	SUPPORT, Seat, Pivot
10	935112	1	CLIP, Speed
11	1919439SM	2	NUT, Hex Hd., Nyloc, 3/8-16
12	1924940SM	2	WASHER, Plain, 13/32
13	1663752SM	2	SPACER, 25/64 x 5/8 x 3/16
14	1931350SM	2	BOLT, RD HD SH SQ NK
15	1928352SM	2	NUT, Hex, Flange, Whizlock, 3/8-16
16	1718858SM	1	BRACKET, Seat, Pivot
17	1704299SM	2	SPACER
18	1709308SM	2	SPRING, Compression
19	1719809SM	1	PLATE, Switch
20	1704728SM	2	SPRING, Compression, 2" O.D.
21	1709256SM	2	WASHER, Spring, 5/16 x 1 1/4
22	1919438SM	2	NUT, Hex, Full, 5/16-18
23	1704724SM	2	COVER, Spring
24	1930601SM	2	SCREW, Taptite, 5/16-18 x 5/8
25	1701229SM	1	BUSHING, Snap
26	1706513SM	1	SEAT DECK (Orange)
26	1729511SM	1	SEAT DECK (Red)
27	1925003SM	4	SCREW, Taptite, 1/4-20 x 1/2
28	1708361SM	1	PLATE, Reinforcement
29	1960459SM	2	SCREW, Truss Hd., Torx Dr., 3/8-16 x 1
30	1704108SM	1	ELBOW & TUBE ASSY.
31	1654930SM	1	BUSHING
32	1714820SM	1	TANK, Fuel
33	1704366SM	1	CAP, Fuel Gauge

Service Parts - Electric Lift Mechanism

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1693017



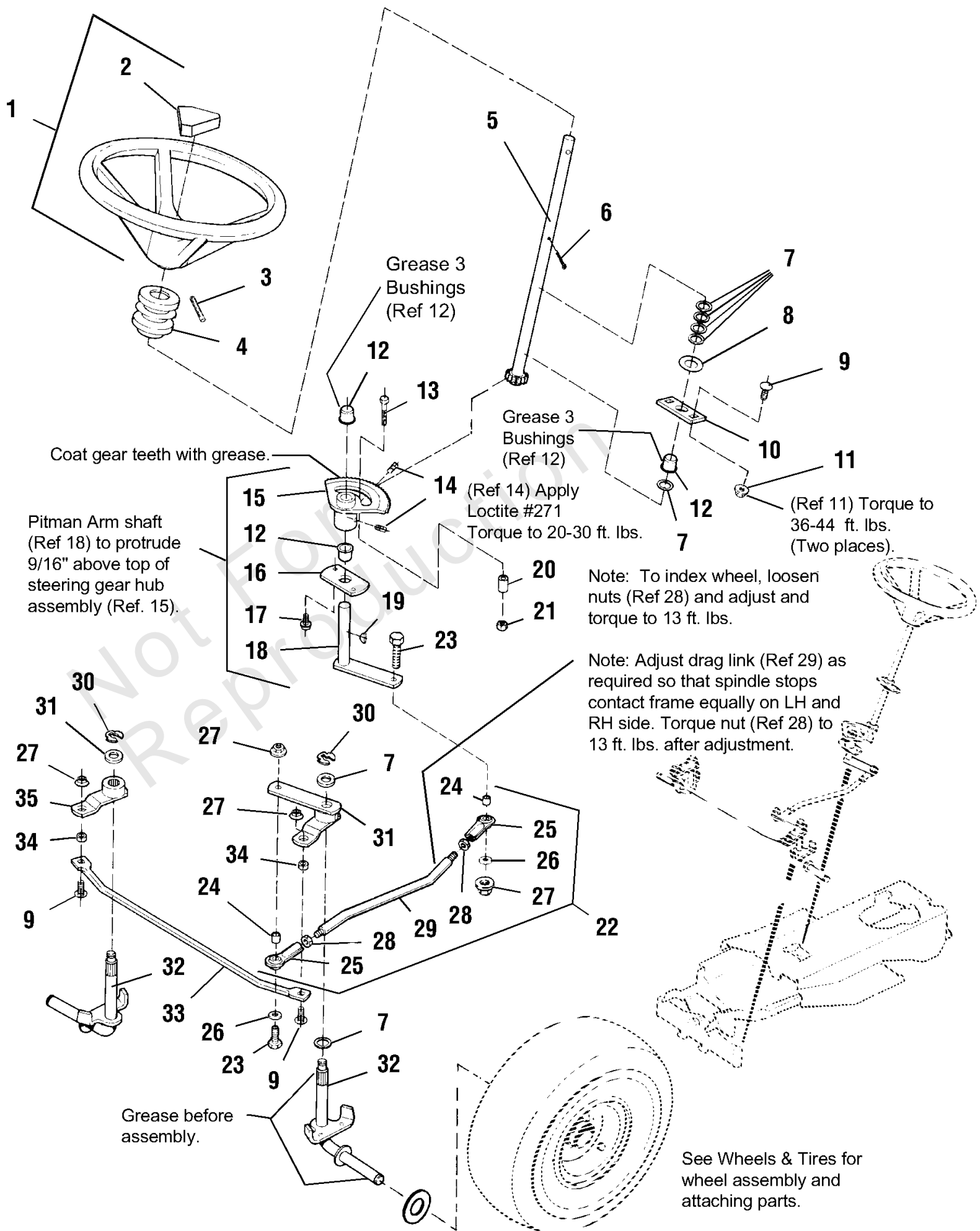
Service Parts - Electric Lift Mechanism

REF NO	PART NO	QTY	DESCRIPTION
1	1605773	1	CAPSCREW, Taptite
2	1605778SM	1	PIN, Drive
3	1663966	1	MOTOR KIT, 12 VDC
4	1667788SM	1	GASKET, Housing
5	1703531SM	1	SEAL, Outer Tube (Top)
6	1709104SM	1	TUBE & BALL SCREW ASSY.
7	1709105SM	1	MOTOR & GEARBOX ASSY., 12 VDC, 17:1 Ratio
8	1709106SM	1	BRUSH & LEAD (Red)
9	1709107	1	BRUSH & LEAD (Black)
10	1709108SM	1	SEAL, Inner Tube (Top)
11	1720713SM	1	OUTPUT GEAR & SLIP CLUTCH ASSY.
12	1720713SM	1	GEAR ASSY., 2nd & 3rd

Steering

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1693017



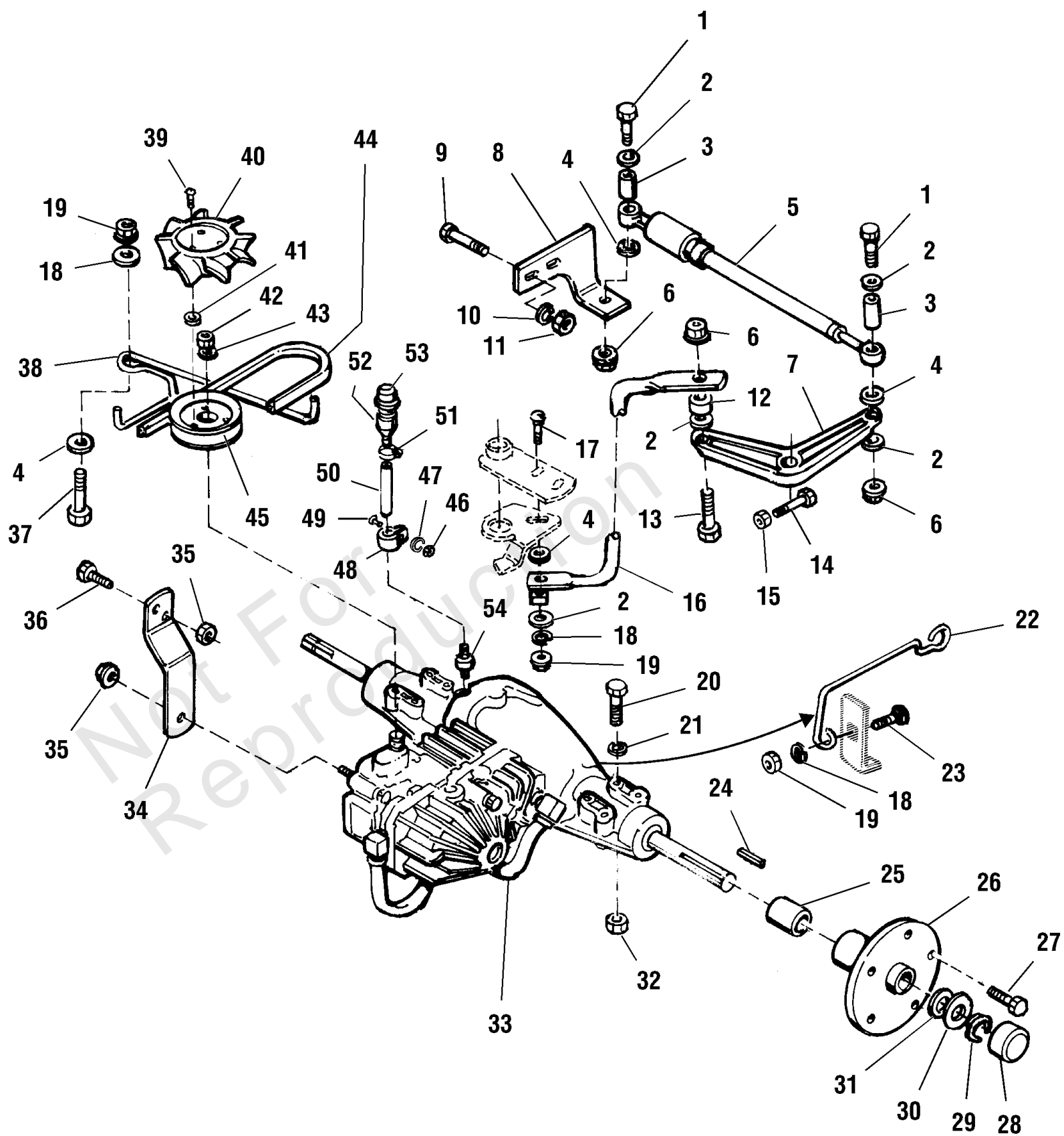
Steering

REF NO	PART NO	QTY	DESCRIPTION
1	1686651SM	1	STEERING WHEEL, 15" -(Incl. Ref. No. 2 & 3)
2	1714097SM	1	CAP, Steering Wheel
3	1960540SM	1	PIN, Spring, 5/16 x 2-1/2
4	1714400SM	1	TUBE, Steering
5	1718539SM	1	SHAFT ASSY., Steering
6	1919314SM	1	COTTER PIN
7	1960114SM	13	WASHER, Plain, 49/64
8	2173668SM	1	WASHER, Plain
9	1921968SM	2	CAPSCREW, Hex, 3/8-16 x 1-3/8
10	1703508ASM	1	PLATE, Mounting, Steering
11	1928352SM	2	NUT
12	2176440SM	3	BUSHING-0.765IDX
13	1921221SM	1	CAPSCREW, Hex Hd., 5/16-18 x 1-1/2
14	1928721SM	2	SETSCREW, Sq. Hd., 5/16-18 x 1/2
15	1686824SM	1	GEAR ASSY., Steering
16	1716117A	1	SECTOR MOUNTING PLATE
17	1960373SM	2	SCREW, Taptite, 5/16-18 x 3/4
18	1707431SM	1	PITMAN ARM ASSY.
19	2830670SM	1	KEY, Hi Pro
20	1673796SM	1	SPACER, Stop
21	1919438SM	1	NUT, Hex, Lock ESNA Light, 5/16-18
22	1685478SM	1	DRAG LINK ASSY. -(Incl. Ref. Nos. 23, 24, 25, 26, 27, 28 & 29)
23	1921968SM	2	CAPSCREW, Hex, 3/8-16 x 1-3/8
24	1708236SM	2	SPACER
25	1702779SM	2	JOINT-BALL .500-20 TH
26	1922755SM	2	WASHER
27	1930645SM	4	NUT, Hex, Lock, Flange, 3/8-16
28	1919262SM	2	NUT, Hex, Jam, 1/2-20
29	1708084A	1	DRAG LINK
30	1704420SM	2	KLIP RING
31	1706997SM	1	ARM ASSY., Steering, LH
32	1706991ASM	2	SPINDLE ASSY.
33	1706956SM	1	TIE ROD
34	1611705SM	2	SPACER-0.385IDX0
35	1706996SM	1	ARM ASSY., Steering, RH

Transmission - Drive, Belt & Control Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1693017



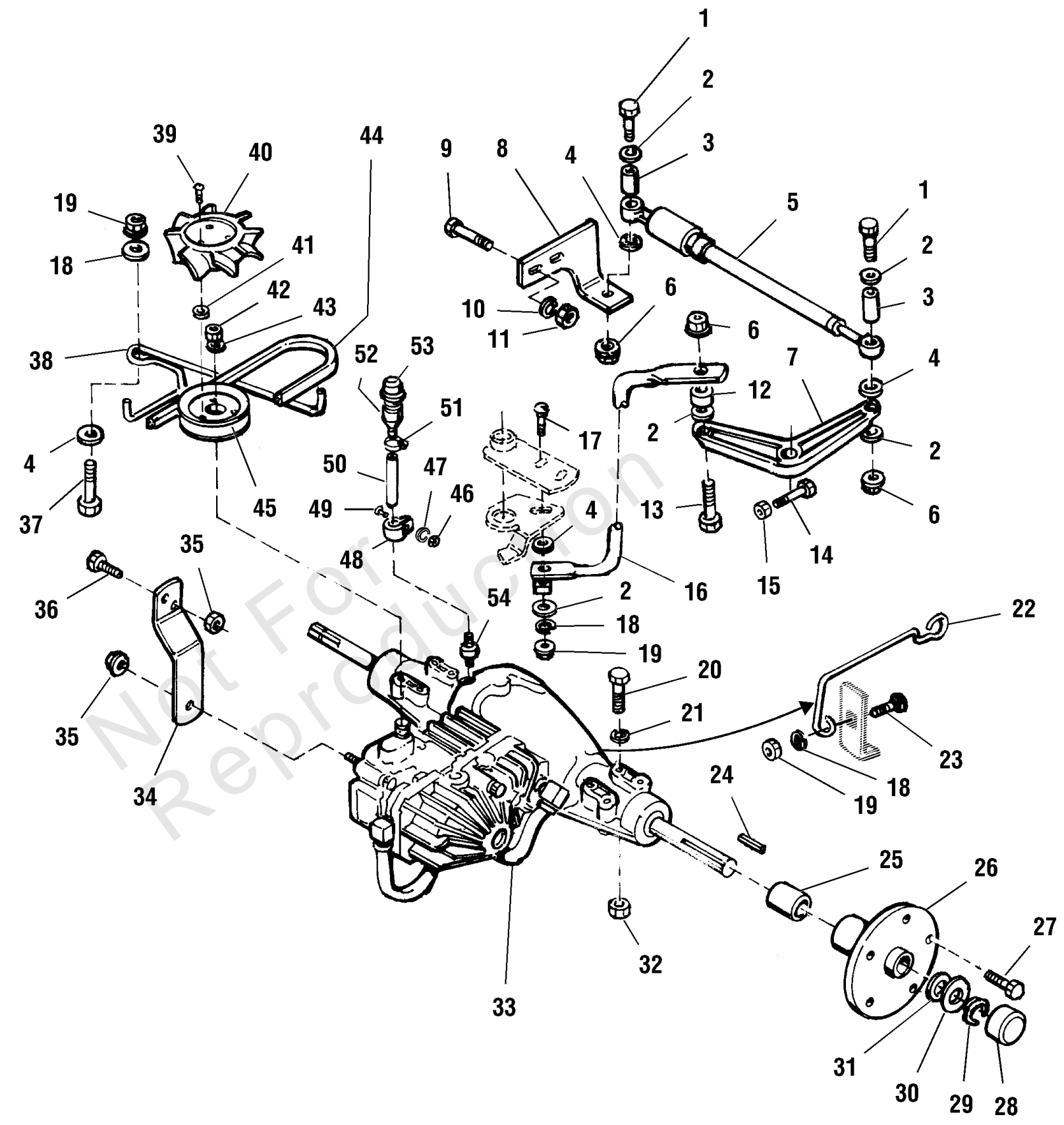
Transmission - Drive, Belt & Control Group

REF NO	PART NO	QTY	DESCRIPTION
	-----	1	-See the Transmission Service Parts Group for Transaxle or Transmission Service Parts.
1	1921978SM	2	CAPSCREW, Hex Head 5/16-18 x 2 G5
2	1919326SM	5	WASHER, 5/16
3	1676392SM	1	SPACER
4	1919381SM	4	WASHER, 11/32 x 1 x 1/8
5	1714856SM	1	SHOCK ABSORBER
6	1935048SM	3	NUT, Hex Flange Lock, 5/16-18
7	1714860SM	1	LEVER, Hydro Control
8	1714855SM	1	BRACKET, Shock
9	1921210SM	2	CAPSCREW, Hex Hd., 3/8-16 x 1
10	1916965SM	2	LOCKWASHER, 3/8
11	1916950SM	2	NUT, Hex.Fin., 3/8-16
12	1703900SM	2	SPACER
13	1921332SM	1	CAPSCREW, Hex Hd., 5/16-18 x 3/4
14	1960553SM	1	SCREW, Hex Soc. Hd., Gr. 8 #10-32 x 2
15	1930627SM	1	NUT, Hex Lock #10-32
16	1714861SM	1	ROD, Shift, Rear
17	1960223SM	1	BOLT-RD HD SH SQ NK 5
18	1917356SM	3	LOCKWASHER, 5/16
19	1917372SM	3	NUT, Hex Fin., 5/16-18
20	1922918SM	4	CAPSCREW, 3/8-16 x 3-1/4
21	1922755SM	4	WASHER, 13/32 x 1 x 1/8
22	1715442SM	1	LEVER, Hydro Release Valve
23	1931333SM	1	BOLT, Carriage, 5/16-18 x 3/4
24	2805100SM	2	KEY, 1/4 x 1/4 x 2-1/4
25	1714812SM	2	SPACER
26	1714853SM	2	HUB ASSY., Rear Wheel
27	1729280SM	10	BOLT, Hub, Rear Wheel
28	1676519SM	2	HUB CAP
29	2834712SM	2	RING, "E" Retaining
30	1714810SM	2	WASHER, Retainer, Hub Cap
31	1919394SM	4	WASHER, 1-1/32 x 1-5/8 x 1/16
32	1930645SM	4	NUT, Hex Flange Lock, 3/8-16
33	1718536SM	1	HYDROSTATIC PUMP & TRANSAXLE ASSY. -See the Transmission Service Parts Group for Transaxle or Transmission Service Parts.
34	1713181SM	1	SUPPORT, Transmission
35	1931277SM	4	NUT, Hex Whiz Lock, 5/16-18
36	1930591SM	2	SCREW, Whizlock, 5/16-18 x 3/4
37	1921977SM	1	CAPSCREW, Hex Head, 5/16-18 x 1 1/4
38	1714863SM	1	STOP, Belt
39	1933958SM	3	SCREW, Taptite, 1/4-20 x 1-1/64
40	1707933SM	1	FAN
41	1921319SM	3	WASHER, 17/64 x 5/8 x 3/64
42	1960549	1	NUT, Hex Jam, 9/16-18
43	1960550	1	LOCKWASHER, 9/16
44	1707381SM	1	V-BELT, 86.25"
45	1713269SM	1	PULLEY ASSY., Transmission
46	1916622SM	1	NUT, Hex Fin. 1/4-20
47	1916964SM	1	LOCKWASHER, 1/4

Transmission - Drive, Belt & Control Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1693017



Transmission - Drive, Belt & Control Group

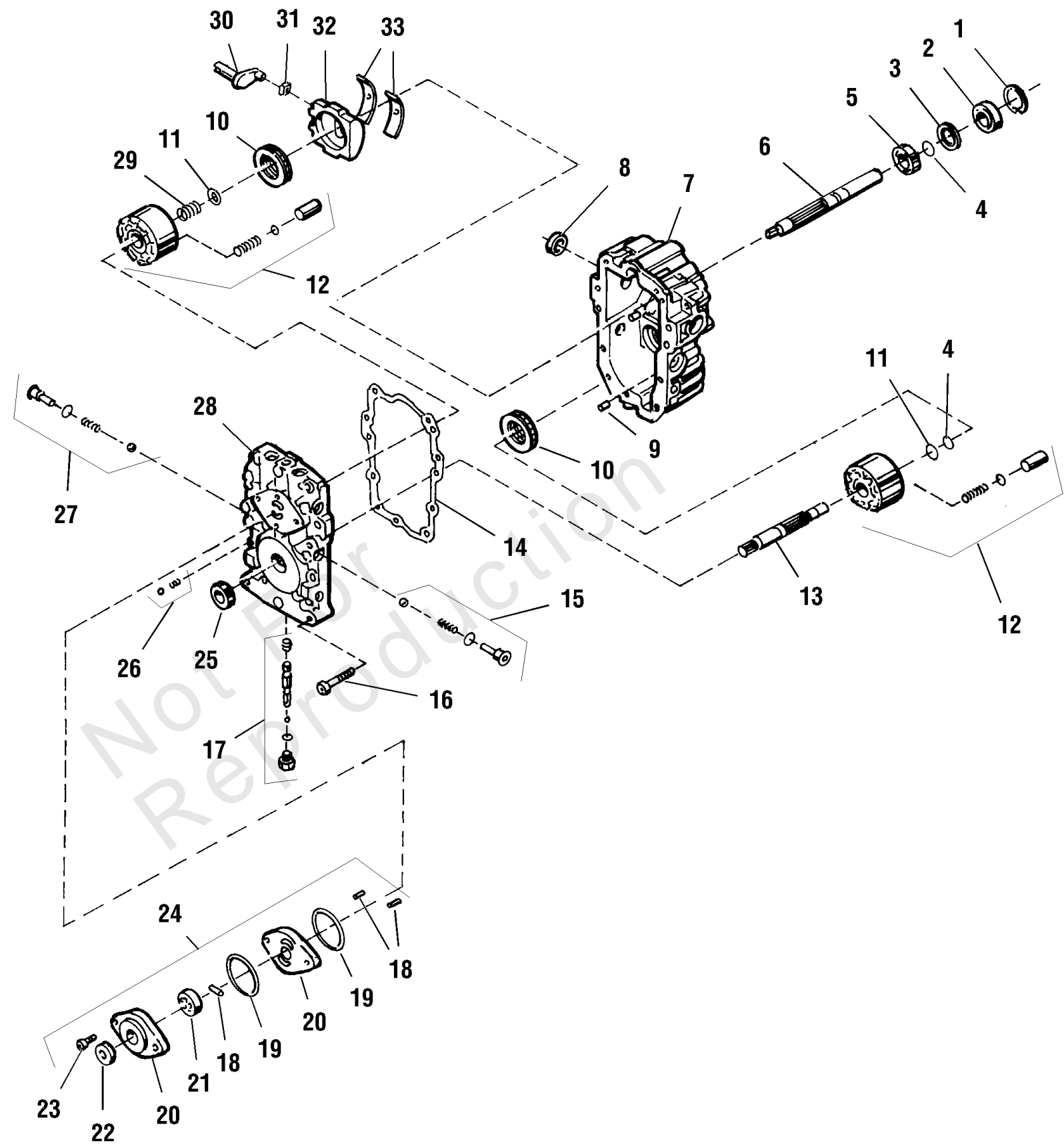
REF NO	PART NO	QTY	DESCRIPTION
48	1676527SM	1	CLAMP
49	1923341SM	1	CAPSCREW, Hex Hd., 1/4-20 x 3/4
50	2166137SM	1	HOSE, 12"
51	2860266SM	1	CLAMP
52	1676466SM	1	NECK, Filler
53	1676467SM	1	CAP, Filler
54	1715174SM	1	FITTING, Vent Tube

Not For Reproduction

Transmission SERVICE PARTS - Hydro Pump - Hydro Gear BDU 10L-258

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1693017



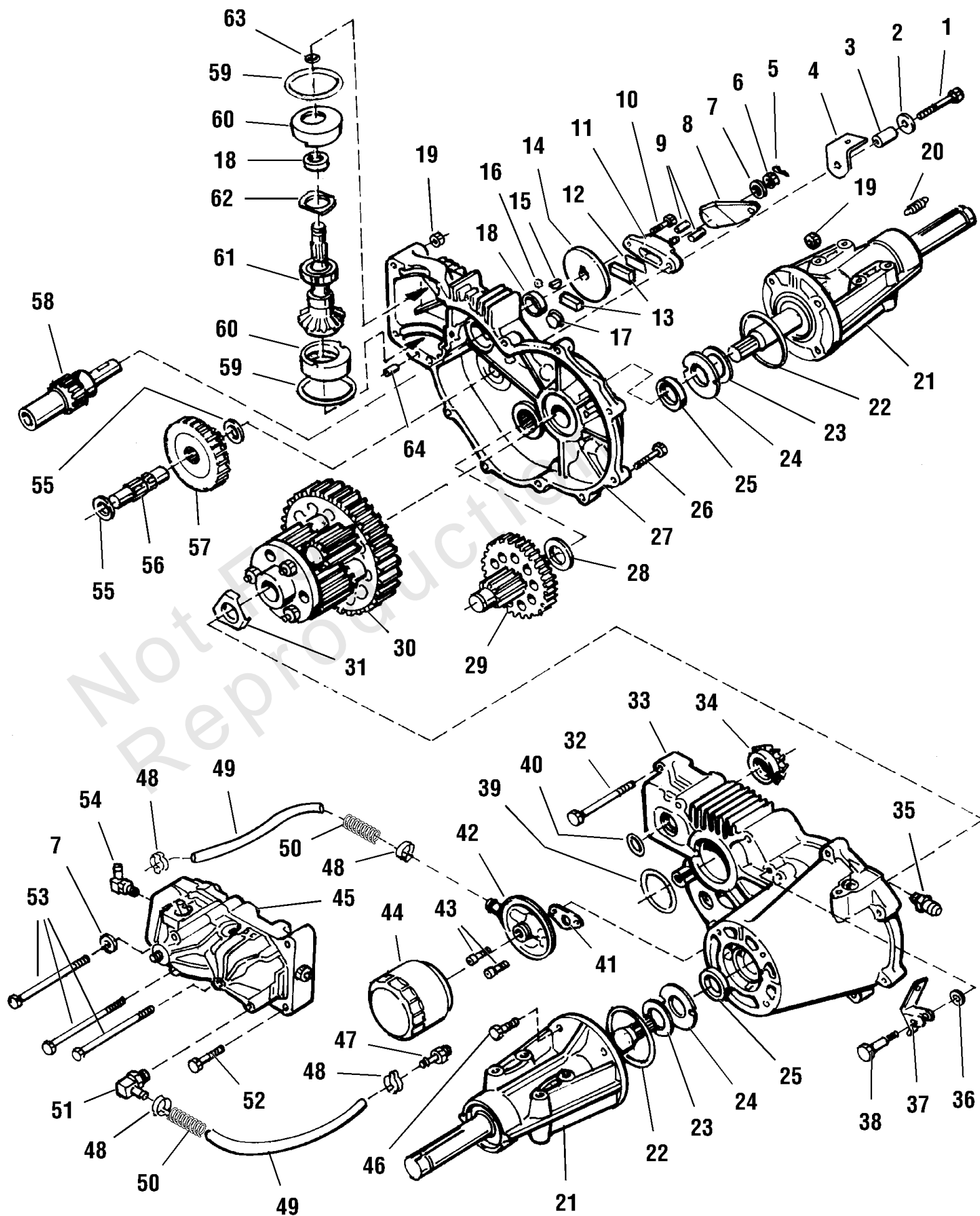
Transmission SERVICE PARTS - Hydro Pump - Hydro Gear BDU 10L-258

REF NO	PART NO	QTY	DESCRIPTION
1	1706174SM	1	RETAINING RING -These parts can be ordered as Overhaul Seal Kit, Part No. 1706192.
2	1706173SM	1	SEAL -These parts can be ordered as Overhaul Seal Kit, Part No. 1706192.
3	1706172SM	1	SPACER -These parts can be ordered as Overhaul Seal Kit, Part No. 1706192.
4	1715141SM	2	Retaining Ring -These parts can be ordered as Overhaul Seal Kit, Part No. 1706192.
5	1715142SM	1	BEARING. Shaft
6	1715447SM	1	PUMP SHAFT
7	1715448SM	1	PUMP HOUSING KIT
8	1709908SM	1	SEAL -These parts can be ordered as Overhaul Seal Kit, Part No. 1706192.
9	1715278SM	2	PIN
10	1715144SM	2	THRUST BEARING ASSY.
11	1715172SM	2	THRUST WASHER
12	1715146SM	2	BLOCK ASSY.
13	1715450SM	1	MOTOR SHAFT
14	1715294SM	1	GASKET, Center Section -These parts can be ordered as Overhaul Seal Kit, Part No. 1706192.
15	1715284SM	1	CHECK VALVE KIT, LH
16	1707926SM	1	CAPSCREW, Socket Hd.
17	1706186SM	1	BYPASS VALVE KIT
18	1715456SM	3	DOWEL PIN
19	1715451SM	2	O-RING -These parts can be ordered as Overhaul Seal Kit, Part No. 1706192.
20	1715455SM	2	SPACER PLATE
21	1715453SM	1	GEROTOR ASSY.
22	1706178SM	1	SEAL -These parts can be ordered as Overhaul Seal Kit, Part No. 1706192.
23	1715454SM	2	CAPSCREW, 6M x 20
24	1715452SM	1	CHARGE PUMP KIT
25	1706177SM	1	SEAL -These parts can be ordered as Overhaul Seal Kit, Part No. 1706192.
26	1715283SM	1	CHARGE RELIEF KIT
27	1715282SM	1	CHECK VALVE KIT, RH
28	1715449SM	1	CENTER SECTION KIT
29	1715171SM	1	SPRING
30	1715147SM	1	TRUNNION ARM
31	1715148SM	1	GUIDE
32	1715145SM	1	VARIABLE SWASHPLATE
33	1715143SM	2	CRADLE, Bearing
	1706192SM		SEAL KIT, Overhaul

Transmission SERVICE PARTS - Transaxle - Hydro Gear 216-3010L CT

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1693017



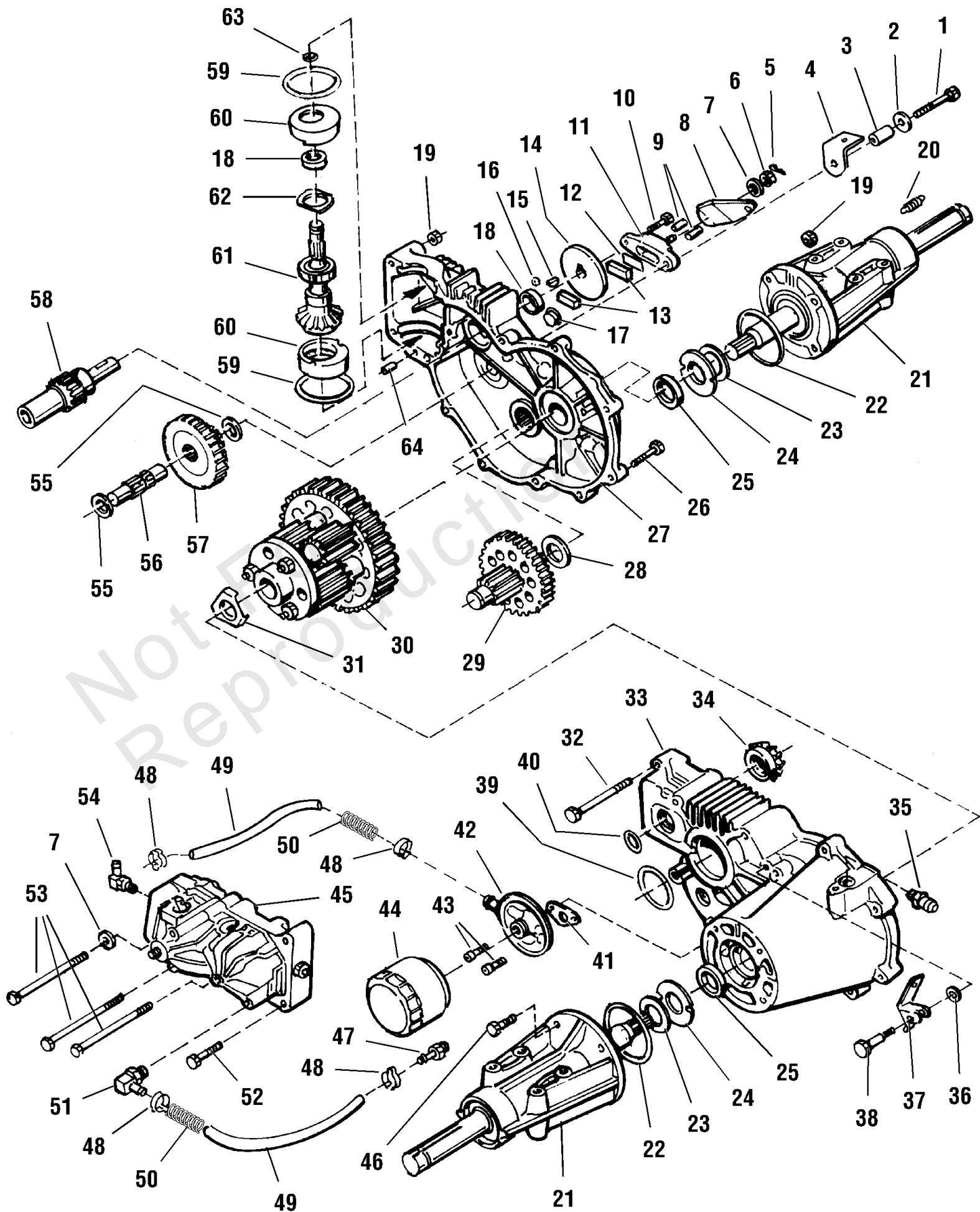
Transmission SERVICE PARTS - Transaxle - Hydro Gear 216-3010L CT

REF NO	PART NO	QTY	DESCRIPTION
1	1715200SM	1	BOLT, 1/4-20 x 2
2	1706161SM	1	WASHER, Flat
3	1715199SM	1	SPACER
4	1715604SM	1	BRACKET
5	1918447SM	1	COTTER PIN
6	1714431SM	1	NUT, Castle, 7/16
7	1924874SM	2	WASHER, 7/8 x x 7/16 x
8	1713618SM	1	ARM-BRAKE
9	1706141SM	2	PIN, Brake Actuating
10	1706147SM	1	BOLT, Nyloc, Gr. 5, 1/4-20 x 1
11	1706142SM	1	BRAKE YOKE ASSY.
12	1706145SM	1	PLATE, PUCK
13	1706146SM	2	PUCK, Brake
14	1706143SM	1	DISC, Brake
15	2830672SM	1	KEY, Hi-Pro, 3/16 x 5/8
16	1715227SM	1	WASHER, 11/32 I.D. x 9/16 O.D.
17	1706179SM	1	PLUG, Straight Thread
18	1715217SM	2	SEAL, Oil, 5/8 x 1 x 1/4
19	1715211SM	4	LOCKNUT, Hex, 5/16-18
20	1714743SM	1	SPRING, Extension
21	1715192SM	2	AXLE MOUNTING HORN ASSY.
22	1715230SM	2	O-RING
23	1715193SM	2	WASHER, 1 x 1-5/8 x 5/64
24	1715194SM	2	WASHER, 1 x 2-1/16 x 3/32
25	1715186SM	2	OIL SEAL, 63/64 x 1-1/2 x 1/4
26	1715212SM	11	BOLT, Hex, Gr. 5, 5/16-18 x 1/2
27	1715185SM	1	HOUSING ASSY., RH
28	1715209SM	1	WASHER, 7/8 I.D. X 1-1/2 O.D.
29	1715205SM	1	FINAL DRIVE PINION ASSY.
30	1715602SM	1	DIFFERENTIAL ASSY.
31	1715214SM	1	WASHER, Differential, 1/2
32	1715210SM	2	BOLT, Hex Hd., 5/16-18 x 3-1/2
33	1715232SM	1	HOUSING ASSY., LH
34	1715190SM	1	PINION ASSY.
35	1715174SM	1	FITTING/O-RING ASSY.
36	1715229SM	1	WASHER
37	1715216SM	1	ARM, Freewheel Actuating
38	1715215SM	1	BOLT, Shoulder
39	1715207SM	1	O-RING
40	1715187SM	1	QUAD RING
41	1715188SM	1	GASKET, Filter Base
42	1715189SM	1	BASE, Filter Assy.
43	1921960SM	2	CAPSCREW, 1/4-20 x 1
44	1715225SM	1	FILTER, Spin-on, Bypass
45	1715446SM	1	HYDRO PUMP -See "Transmission Service Parts - Hydro Pump - Hydro Gear BDU 10L-258" illustration and parts list for service parts)
46	1715213SM	7	CAPSCREW, Hex, Gr. 5, 5/16-18 x 1
47	1715221SM	1	FITTING, 1/2, Straight, 9/16, SAE
48	1715231SM	4	PINCH CLAMP
49	2166136SM	2	HOSE, 1/2", 8-3/4" Long
50	1718536SM	2	SPRING

Transmission SERVICE PARTS - Transaxle - Hydro Gear 216-3010L CT

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1693017



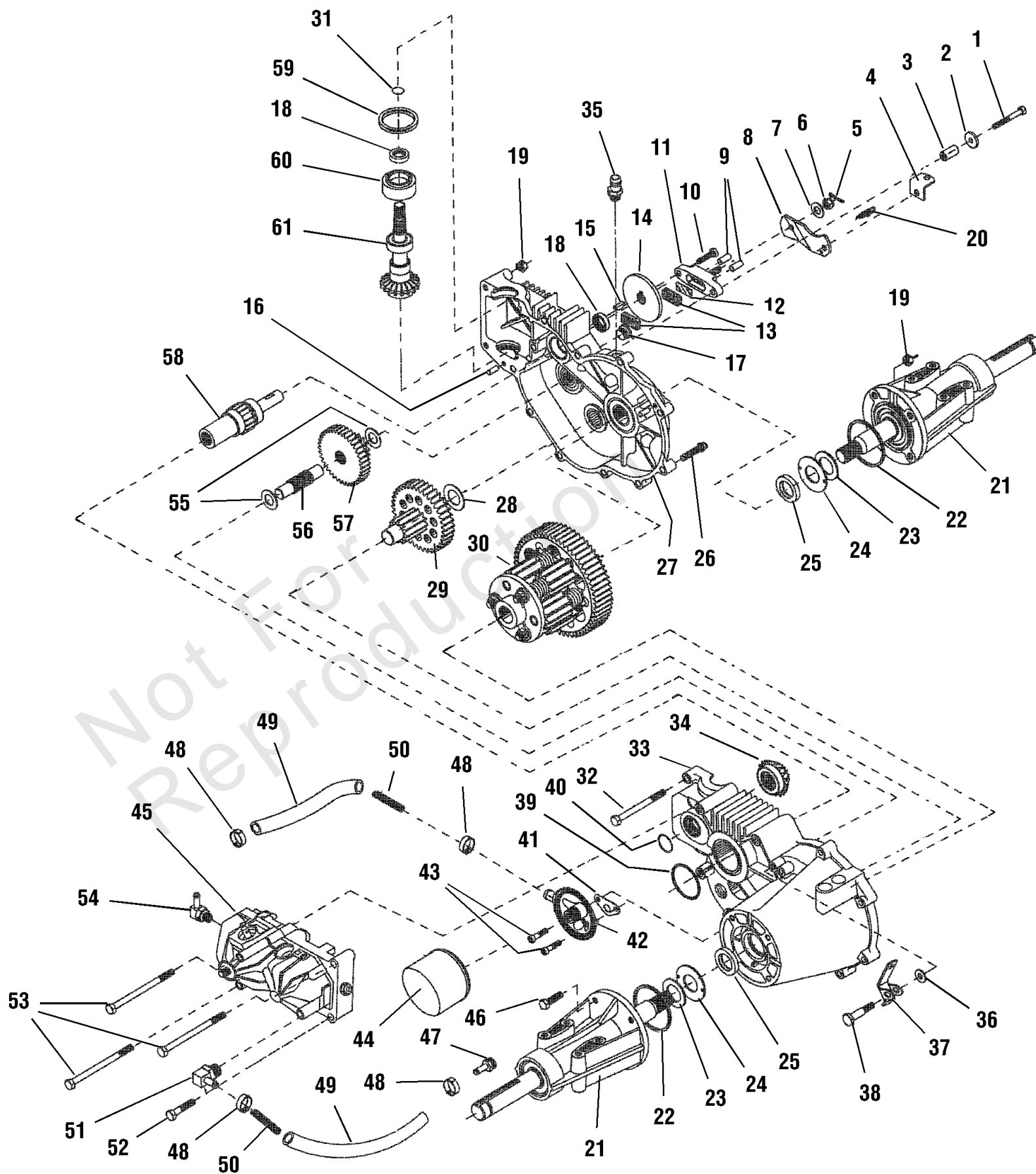
Transmission SERVICE PARTS - Transaxle - Hydro Gear 216-3010L CT

REF NO	PART NO	QTY	DESCRIPTION
51	1715222SM	1	FITTING, 1/2, Beaded, 90o, 7/8, SAE
52	1715218SM	1	BOLT, Hex, Gr. 5, 5/16-18 x 1-3/4
53	1715219SM	3	BOLT, Hex, Gr. 5, 5/16-18 x 1/2
54	1715220SM	2	FITTING, 1/2, Beaded, 90o, 9/16, SAE
55	1715208SM	2	WASHER, 5/8 I.D. X 1-5/32 O.D.
56	1715206SM	1	JACK SHAFT
57	1715204SM	1	GEAR, Reduction, 14T-38T
58	1715191SM	1	BRAKE SHAFT ASSY.
59	1715197SM	2	QUAD RING
60	1715196SM	2	BEARING, Retainer
61	1715195SM	1	INPUT ASSY.
62	1715202SM	1	WASHER, Wave
63	1715141SM	1	RING, Wire Retaining
64	1715203SM	2	PIN, Dowel
?65	1714286SM	1	GREASE, Rykon Premium, 10 Oz. Tube -(Not shown)

Transmission SERVICE PARTS - Transaxle - Hydro Gear 221-3010L

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1693017



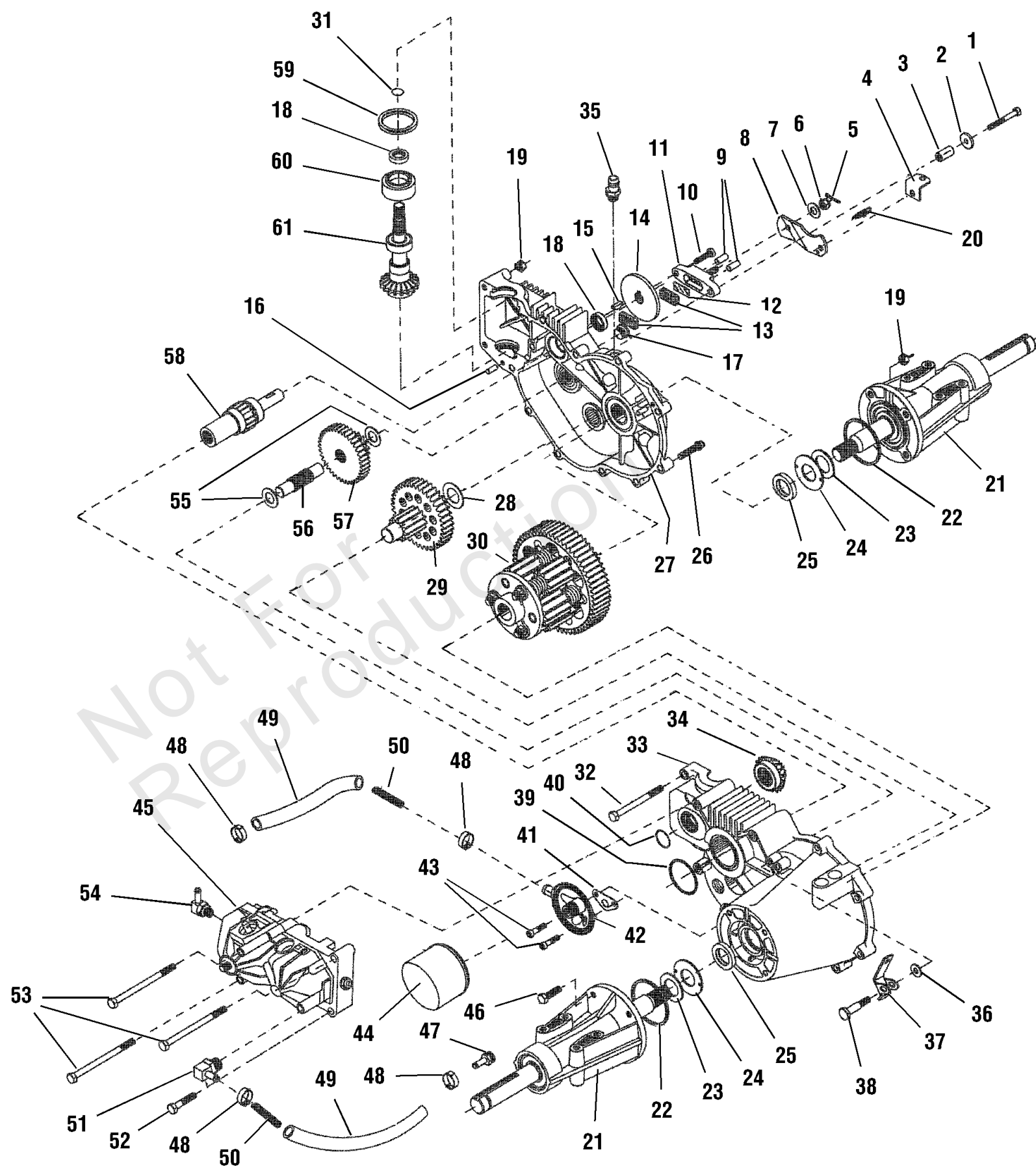
Transmission SERVICE PARTS - Transaxle - Hydro Gear 221-3010L

REF NO	PART NO	QTY	DESCRIPTION
1	1715200SM	1	BOLT, 1/4-20 x 2
2	1706161SM	1	WASHER, Flat
3	1715199SM	1	SPACER
4	1715604SM	1	BRACKET
5	1918447SM	1	COTTER PIN
6	1714431SM	1	NUT, Castle, 7/16
7	1924874SM	2	WASHER, 7/8 x 7/16
8	1713618SM	1	ARM-BRAKE
9	1706141SM	2	PIN, Brake Actuating
10	1706147SM	1	BOLT, Nyloc, Gr. 5, 1/4-20 x 1
11	1706142SM	1	BRAKE YOKE ASSY.
12	1706145SM	1	PLATE, Puck
13	1706146SM	2	PUCK, Brake
14	1706143SM	1	DISC, Brake
15	2830672SM	1	KEY, Hi-Pro, 3/16 x 5/8
16	1715203SM	2	PIN, Dowel
17	1706179SM	1	PLUG, Straight Thread
18	1715217SM	2	SEAL, Oil, 5/8 x 1 x 1/4 -These parts can be ordered as Seal Kit, Part No. 1715228
19	1715293SM	4	NUT, Hex, 5/16-18
20	1714743SM	1	SPRING, Extension
21	1715192SM	2	AXLE MOUNTING HORN ASSY.
22	1715230SM	2	O-RING -These parts can be ordered as Seal Kit, Part No. 1715228
23	1715193SM	2	WASHER, 1 x 1-5/8 x 5/64
24	1715194SM	2	WASHER, 1 x 2-1/16 x 3/32
25	1715186SM	2	OIL SEAL, 63/64 x 1-1/2 x 1/4 -These parts can be ordered as Seal Kit, Part No. 1715228
26	1719745SM	11	CAPSCREW, Torx Hd., 5/16-18
27	1719744SM	1	HOUSING ASSY., RH
28	1715209SM	1	WASHER, 7/8 I.D. X 1-1/2 O.D.
29	1715205SM	1	FINAL DRIVE PINION ASSY.
30	1719202SM	1	DIFFERENTIAL ASSY.
31	1715141SM	1	RING, Wire Retaining
32	1715210SM	2	BOLT, Hex Hd., 5/16-18 x 3-1/2
33	1719743SM	1	HOUSING ASSY., LH
34	1715190SM	1	PINION ASSY.
35	1715174SM	1	FITTING/O-RING ASSY.
36	1715229SM	1	WASHER
37	1715216SM	1	ARM, Freewheel Actuating
38	1715215SM	1	BOLT, Shoulder
39	1715207SM	1	O-RING -These parts can be ordered as Seal Kit, Part No. 1715228
40	1715187SM	1	QUAD RING -These parts can be ordered as Seal Kit, Part No. 1715228
41	1715188SM	1	GASKET, Filter Base -These parts can be ordered as Seal Kit, Part No. 1715228
42	1715189SM	1	BASE, Filter Assy.
43	1921960SM	2	CAPSCREW, 1/4-20 x 1
44	1715225SM	1	FILTER, Spin-on, Bypass
45	1715446SM	1	HYDRO PUMP -See "Transmission Service Parts - Hydro Pump - Hydro Gear BDU 10L-258" illustration and parts list for service parts)

Transmission SERVICE PARTS - Transaxle - Hydro Gear 221-3010L

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1693017



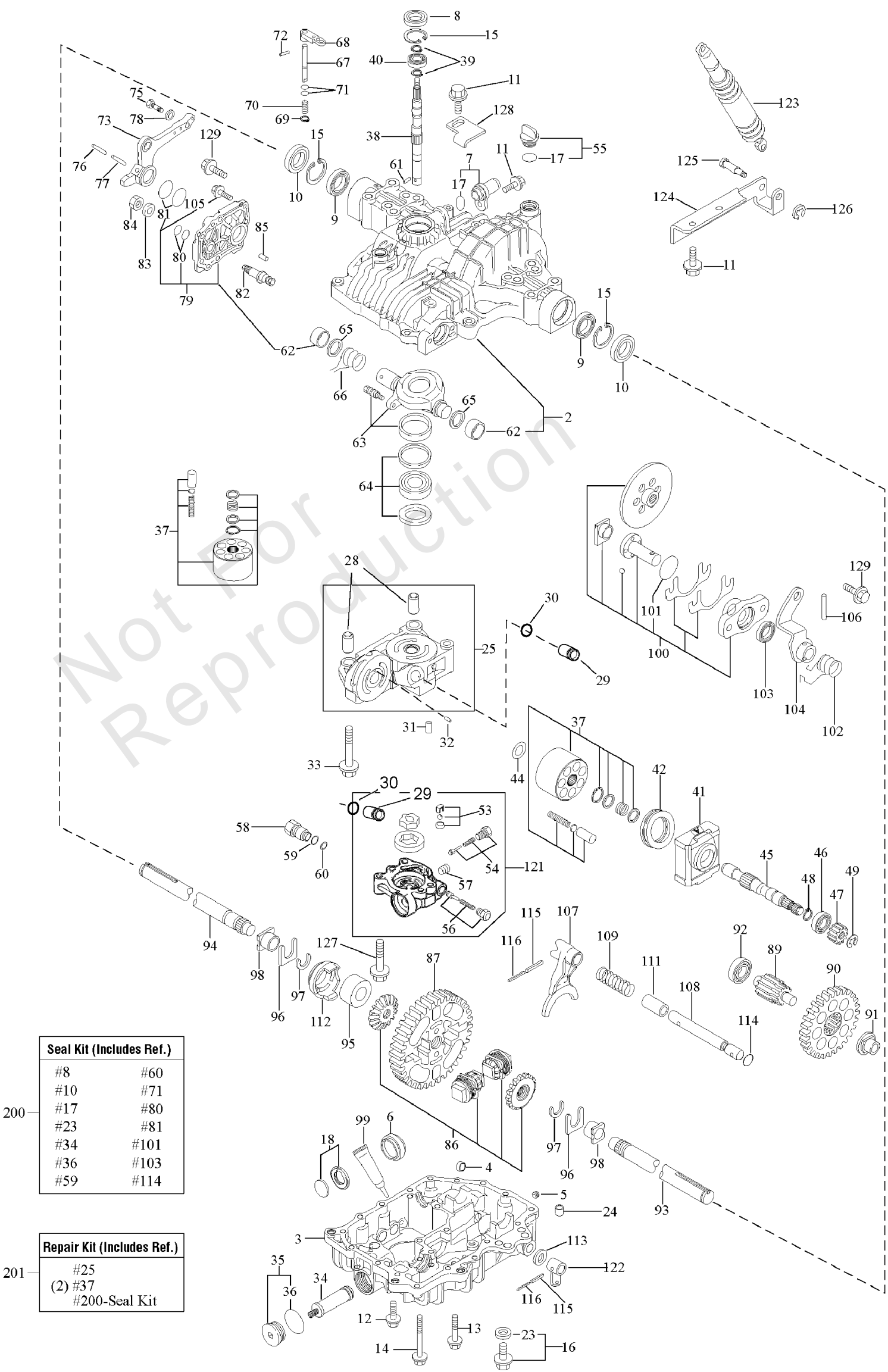
Transmission SERVICE PARTS - Transaxle - Hydro Gear 221-3010L

REF NO	PART NO	QTY	DESCRIPTION
46	1715213SM	7	CAPSCREW, Hex, Gr. 5, 5/16-18 x 1
47	1715221SM	1	FITTING, 1/2, Straight, 9/16, SAE
48	1715231SM	4	PINCH CLAMP
49	2166136SM	2	HOSE, 1/2", 8-3/4" Long
50	1715601SM	2	SPRING
51	1715222SM	1	FITTING, 1/2, Beaded, 90°, 7/8, SAE
52	1715218SM	1	BOLT, Hex, Gr. 5, 5/16-18 x 1-3/4
53	1715219SM	3	BOLT, Hex, Gr. 5, 5/16-18 x 1/2
54	1715220SM	2	FITTING, 1/2, Beaded, 90°, 9/16, SAE
55	1715208SM	2	WASHER, 5/8 I.D. X 1-5/32 O.D.
56	1715206SM	1	JACK SHAFT
57	1715204SM	1	GEAR, Reduction, 14T-38T
58	1715191SM	1	BRAKE SHAFT ASSY.
59	1719727SM	2	QUAD RING -These parts can be ordered as Seal Kit, Part No. 1715228
60	1719726SM	2	BEARING, Retainer
61	1715195SM	1	INPUT ASSY.
?62	1714286SM	1	GREASE, Rykon Premium, 10 Oz. Tube -(Not shown)
?63	1715197SM	1	SEAL KIT -(Includes Ref. 18, 22, 25, 39, 40, 41 & 59)

Transmission SERVICE PARTS - Tuff Torq K71E with Diff Lock (1718534_1686897)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1693017



Transmission SERVICE PARTS - Tuff Torq K71E with Diff Lock (1718534_1686897)

REF NO	PART NO	QTY	DESCRIPTION
2	-----	1	*UPPER HOUSING
3	1723765SM	1	LOWER HOUSING
4	1720759SM	1	BORE PLUG 17
5	1720758SM	1	TAPER PLUG, 1/8, (K71E Only)
6	1720761SM	1	FILTER
7	1720762SM	1	FITTING
8	1720782SM	1	SEAL
9	1720783SM	2	BEARING
10	1720784SM	2	SEAL
11	1720785SM	2	SCREW, Tapping, 8 x 25
12	1707789SM	18	SCREW, Tapping
13	1720786SM	1	SCREW, Tapping, 8 x 45
14	1718226SM	2	BOLT, 8 x 75"
15	1720787SM	3	RING, 47
16	1720788SM	2	BOLT, 10 x 12
17	1707786SM	2	PACKING, P18
18	1718065SM	1	MAGNET COMPLETE
23	1720796SM	1	WASHER, Seal 10
24	1720797SM	2	PIPE, 13 x 11.3
25	-----	1	*CENTER CASE, Complete
28	1720801SM	2	KNOCK PIN, 15.5 x 30
29	1720802SM	1	PLUG, 16 x 25
30	1720803SM	1	PACKING
31	-----	2	*PIN, 8 x 14
32	1718070SM	1	PIN, 3 x 9.8
33	1720805SM	3	BOLT, 10 x 75
34	1719832SM	1	FILTER
35	1720807SM	1	CAP, (M40)
36	1720808SM	1	PACKING
37	-----	2	*CYLINDER BLOCK, Complete
38	1723782SM	1	PUMP SHAFT
39	1720811SM	2	RING, 17
40	1720812SM	1	BEARING, 6303
41	-----	1	*HOUSING
42	-----	1	*BEARING, 51207
44	1720817SM	1	WASHER, 18 x 31 x 1
45	-----	1	*SHAFT MOTOR
46	1720819SM	1	BEARING 6004 SH2 U
47	1720820SM	1	MOTOR GEAR
48	1720821SM	1	SNAP RING, 20
49	1718076SM	1	RING, E15
53	-----	1	*HOLDER, Seat
54	-----	1	*VALVE, Implement Complete
55	1720760SM	1	CAP, Oil, 20
56	-----	1	*VALVE, Charge Complete
57	1708665SM	1	PLUG
58	1720829SM	2	CONNECTOR
59	1723773SM	2	O-RING

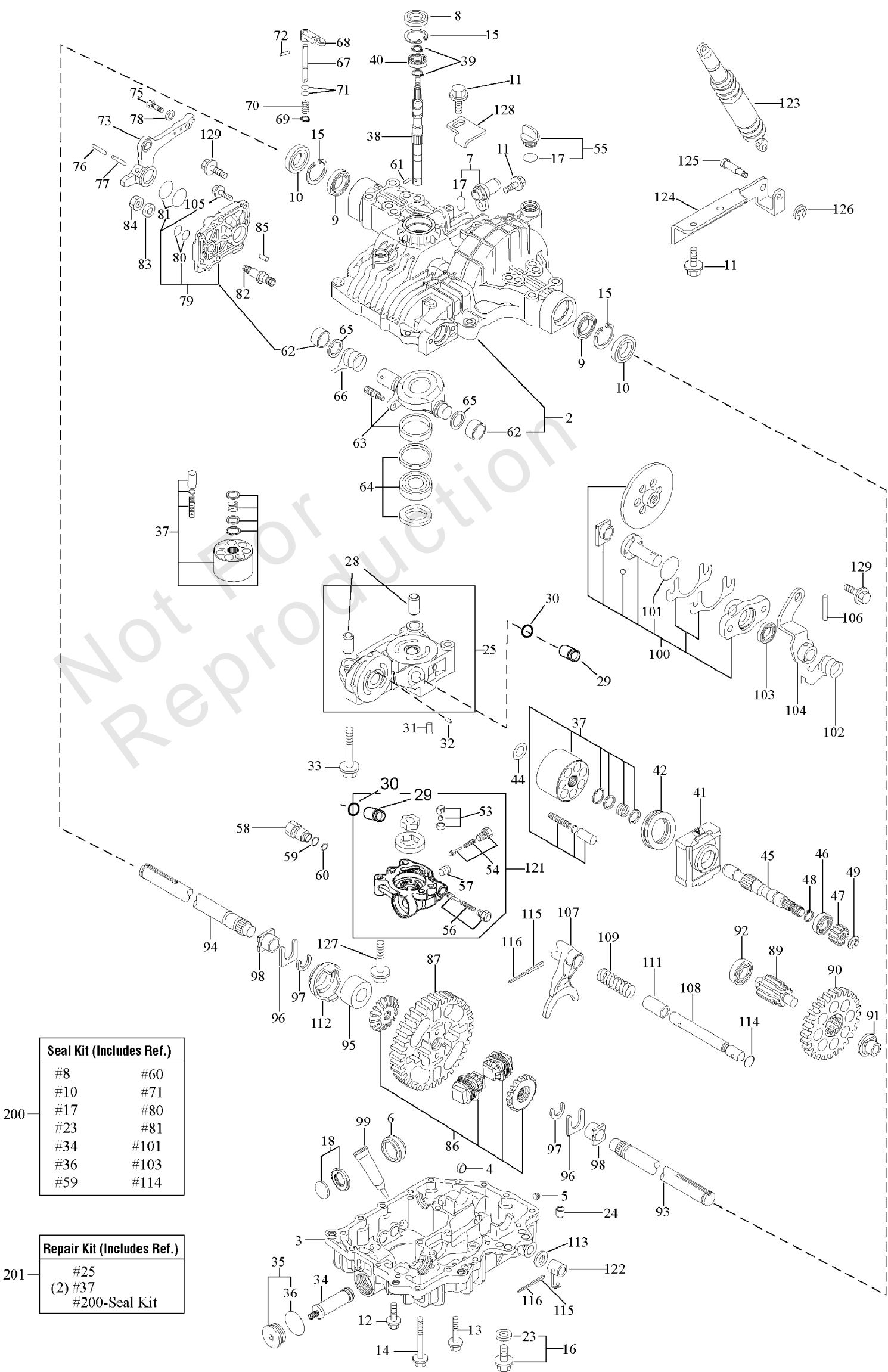
Footnotes:

Note:* See your local authorized dealership for parts and warranty or contact Tuff Torq at www.tufftorqservices.com (U.S. 1-866-572-3441 Int'l 01-423-585-1977)

Transmission SERVICE PARTS - Tuff Torq K71E with Diff Lock (1718534_1686897)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1693017



Transmission SERVICE PARTS - Tuff Torq K71E with Diff Lock (1718534_1686897)

REF NO	PART NO	QTY	DESCRIPTION
60	1720831SM	2	PACKING
61	1720832SM	1	PIN, 3.2 x 21
62	1720757SM	2	BEARING, 28 x 15
63	-----	1	*SWASH PLATE COMPLETE
64	-----	1	*BEARING COMPLETE
65	-----	2	*WASHER
66	-----	1	*SPRING (N/C)
67	-----	1	*SHAFT (BYPASS)
68	-----	1	*LEVER (BYPASS)
69	1718061SM	1	RING
70	1725730SM	1	SPRING
71	1708691SM	2	O-RING, 1A P10A
72	1707839SM	1	PIN, 3.0A*20
73	1720840SM	1	CONTROL LEVER
75	1720841SM	1	BOLT
76	1720842SM	1	PIN, 6.0A x 50
77	1720843SM	1	PIN, 3.5A x 50
78	-----	1	*WASHER, 10
79	1723784SM	1	SIDE COVER SET, (Includes Ref. Nos. 2, 80 & 81)
80	1707879SM	2	PACKING, P14
81	1720846SM	2	PACKING, P28
82	-----	1	*FULCRUM, (ECCENT)
83	1708689SM	1	WASHER
84	1708692SM	1	NUT 12
85	-----	2	*PIN, 8 x 16
86	1723796SM	2	KIT, Diff Gear
87	-----	1	*FINAL GEAR
89	-----	1	*SHAFT, (F PINION)
90	-----	1	*REDUCTION GEAR
91	-----	1	*BUSHING, 15
92	-----	1	*BEARING, 6203SH2
93	1720855SM	1	AXLE SHAFT, Left
94	-----	1	*AXLE SHAFT, Right
95	-----	1	*COLLAR, (Diff. Lock)
96	1720858SM	2	THRUST WASHER
97	1720859SM	2	RING
98	-----	2	*BUSHING
100	1720862SM	1	BRAKE KIT
101	-----	1	PACKING, G35
102	1720864SM	1	SP, (RETURN)
103	1720865SM	1	SEAL, TC173007
104	-----	1	*ARM, (BRAKE)
105	-----	1	*BOLT
106	1718100SM	1	PIN, 6.0A x 4.0
107	-----	1	*FORK, Differential Lock
108	1723783SM	1	SHAFT, Differential
109	-----	1	SPRING, Differential Lock
111	1720869SM	1	COLLAR (STOP)

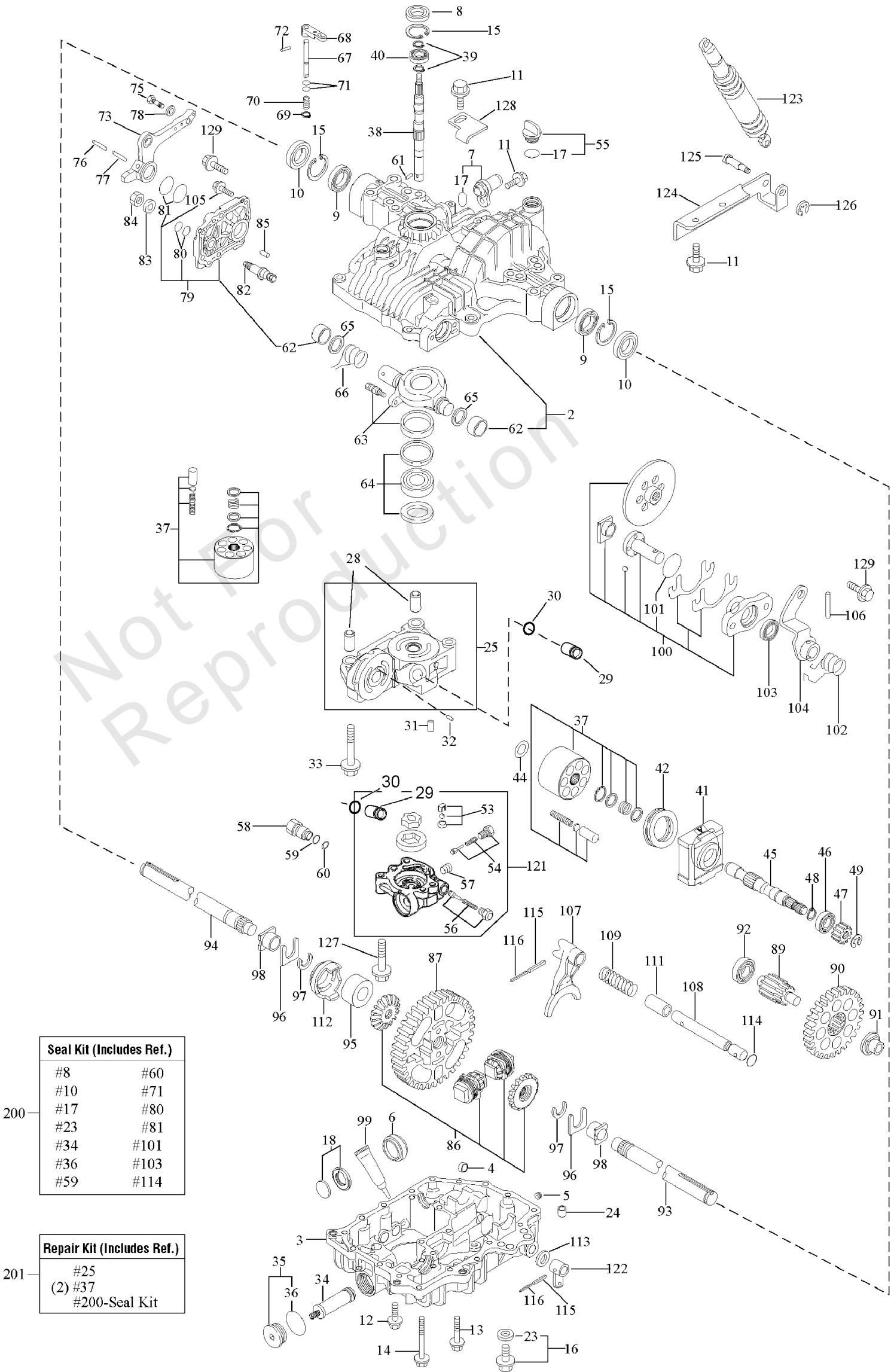
Footnotes:

Note:* See your local authorized dealership for parts and warranty or contact Tuff Torq at www.tufftorqservices.com (U.S. 1-866-572-3441 Int'l 01-423-585-1977)

Transmission SERVICE PARTS - Tuff Torq K71E with Diff Lock (1718534_1686897)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1693017



Transmission SERVICE PARTS - Tuff Torq K71E with Diff Lock (1718534_1686897)

REF NO	PART NO	QTY	DESCRIPTION
112	-----	1	*SLIDER, (Diff. Lock)
113	-----	1	*WASHER, 17 x 32 x 3
114	1720872SM	1	PACKING
115	1707840SM	2	PIN, 6.0A x 32
116	1707893SM	2	PIN, 3.5A x 32
121	1720822SM	1	PUMP CASE
122	1720868SM	1	ARM, Differential Lock
123	1718039SM	1	SHOCK ABSORBER
124	1724704SM	1	STAY
125	1724705SM	1	PIN
126	-----	1	*E-RING, 8
127	1720833SM	1	BOLT 8 x 45
128	-----	1	*STOPPER, Brake
129	1720867SM	2	BOLT, 8 x 25
200	1727539SM	1	SEAL KIT, K71J
201	-----	1	*KIT, Seal

Not For
Reproduction

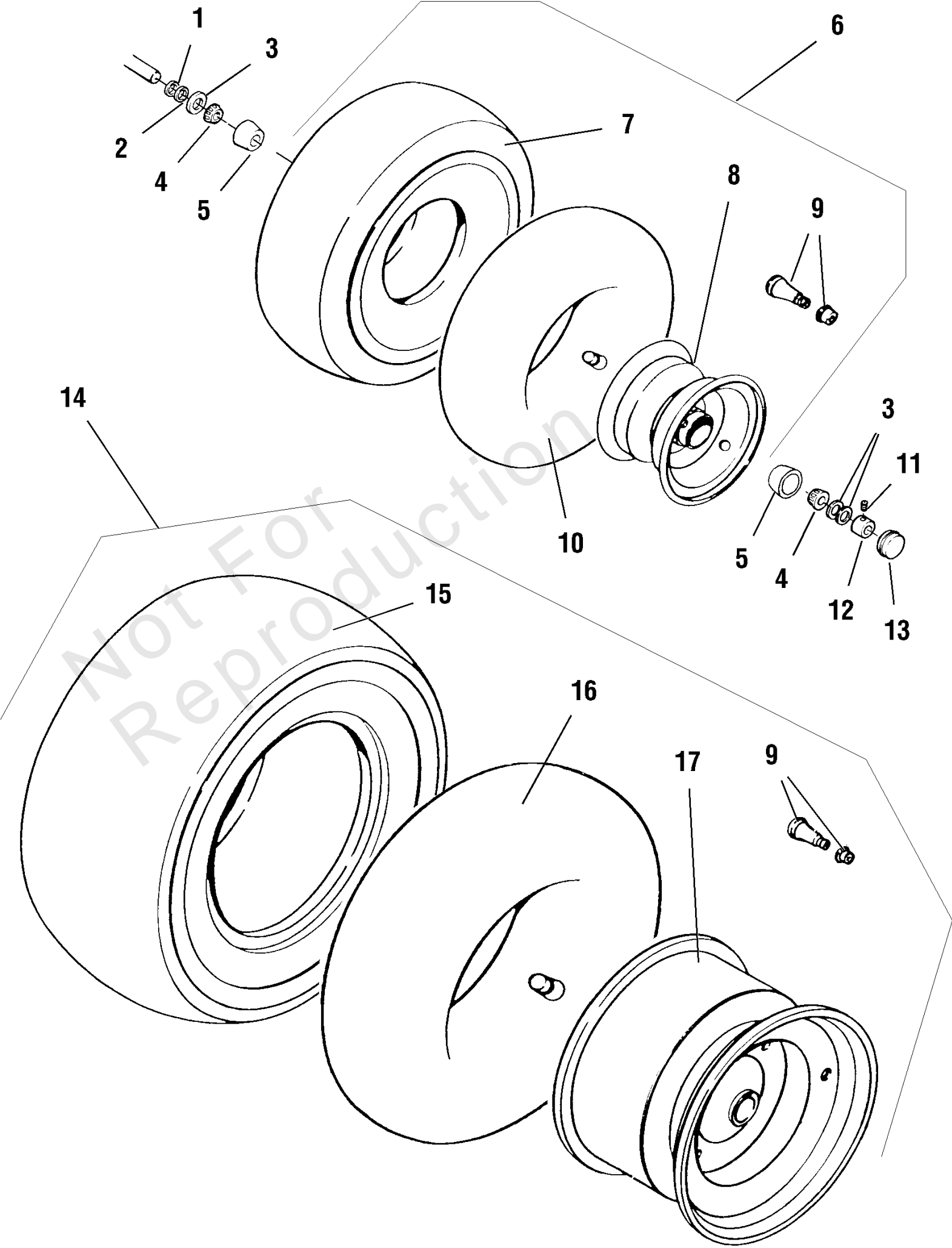
Footnotes:

Note:* See your local authorized dealership for parts and warranty or contact Tuff Torq at www.tufftorqservices.com (U.S. 1-866-572-3441 Int'l 01-423-585-1977)

Wheels & Tires

Note: Unless noted otherwise, use the standard torque specifications





Mfg. No: 1693017



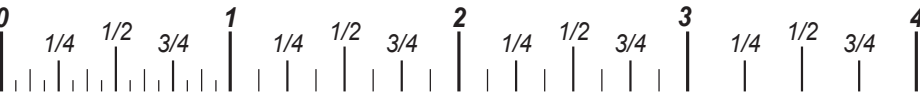
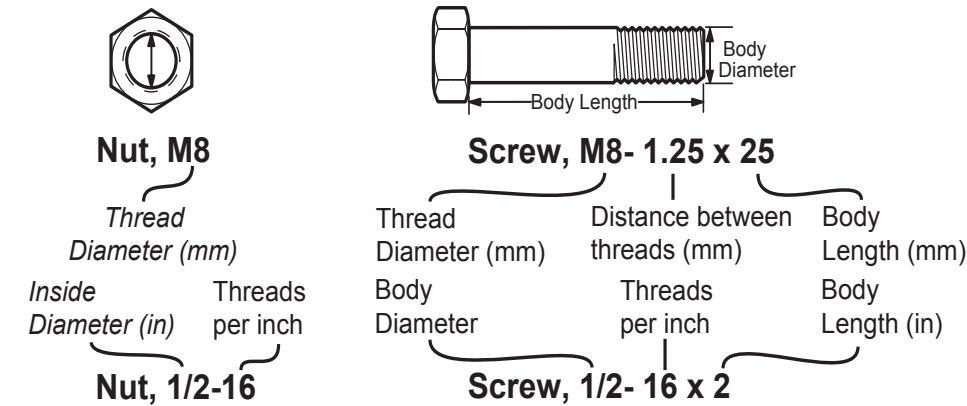
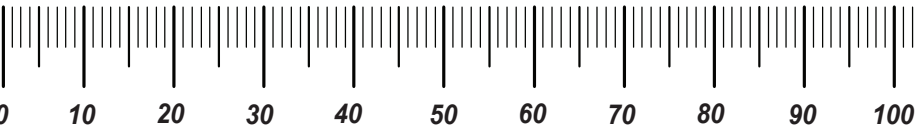
Wheels & Tires

REF NO	PART NO	QTY	DESCRIPTION
1	2171375SM	2	SPACER
2	1960114SM	6	WASHER, Plain, 49/64
3	2170168SM	2	SEAL
4	2154486SM	4	BEARING, Tapered Roller
5	2154393SM	4	CUP, Bearing
6	1713060	2	FRONT WHEEL & TIRE ASSY., Metallic Gray, 16 x 6.50-8 -(Incl. Ref. 7, 8, 9 & 10)
7	1709959SM	2	FRONT TIRE, Dico, Multi Trac, 16 x 6.50
8	1713177SM	2	FRONT WHEEL ASSY., Metallic Gray -(Incl. Ref. 5)
9	2172353SM	4	VALVE STEM & CAP ASSY.
10	2164247SM	2	FRONT TUBE, 16 x 6.50 -(Service only)
11	1960619SM	2	SETSCREW, Sq. Hd.
12	1729254SM	2	COLLAR, Set
13	2154487SM	2	CAP, Hub
14	1713062SM	2	REAR WHEEL & TIRE ASSY., Metallic Gray, 23 x 10.50-12 -(Incl. Ref. 9, 15, 16 & 17)
15	1709969SM	2	REAR TIRE, Dico, Multi Trac, 23 x 10.50-12
16	2157638SM	2	REAR TUBE, 23 x 10.50-12
17	1713174SM	2	REAR WHEEL ASSY., Metallic Gray, 23 x 10.50-12 -(Incl. Ref. 8)

Hardware Identification & Torque Specifications

Torque Specification Chart								
FOR STANDARD METRIC MACHINE HARDWARE (Tolerance ± 20%)								
Property Class	 Class 5.6		 Class 8.8		 Class 10.9		 Class 12.9	
Size Of Hardware	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.
M3	5.88	.56	13.44	1.28	19.2	1.80	22.92	2.15
M4	13.44	1.28	30.72	2.90	43.44	4.10	52.56	4.95
M5	26.4	2.50	60.96	5.75	5.97	8.10	7.15	9.7
M6	44.64	4.3	7.3	9.9	10.3	14	12.1	16.5
M7	5.2	7.1	12.1	16.5	16.9	23	19.9	27
M8	7.7	10.5	17.7	24	25	34	29	40
M10	15	21	35	48	50	67	59	81
M12	26	36	61	83	86.2	117	103	140
M14	42	58	101	132	136	185	162	220
M16	64	88	147	200	210	285	250	340
M18	89	121	202	275	287	390	346	470
M20	126	171	290	390	405	550	486	660
M22	169	230	390	530	559	745	656	890
M24	217	295	497	375	708	960	840	1140
M27	320	435	733	995	1032	1400	1239	1680
M30	435	590	995	1350	1401	1900	1681	2280
M33	590	800	1349	1830	1902	2580	2278	3090
M36	759	1030	1740	2360	2441	3310	2935	3980
M39	988	1340	2249	3050	3163	4290	3798	5150




The guides and ruler furnished below are designed to help you select the appropriate hardware.



Standard Hardware Sizing

When a washer or nut is identified as 1/2" (M8), this is the *Nominal size*, meaning the *inside diameter* is 1/2 inch (8mm metric thread diameter); if a second number is present it represents the *threads per inch* (distance between threads).

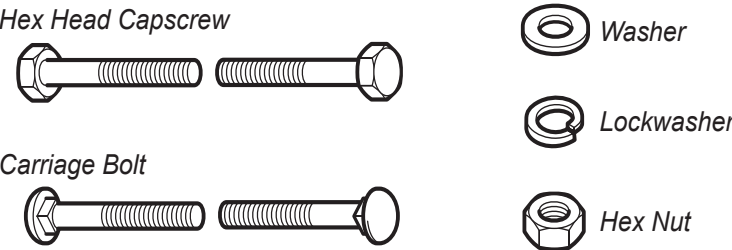
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw, 2 inches (50mm).

Torque Specification Chart						
FOR STANDARD MACHINE HARDWARE (Tolerance ± 20%)						
Hardware Grade	 SAE Grade 2		 SAE Grade 5		 SAE Grade 8	
Size Of Hardware	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.
8-32	19	2.1	30	3.4	41	4.6
8-36	20	2.3	31	3.5	43	4.9
10-24	27	3.1	43	4.9	60	6.8
10-32	31	3.5	49	5.5	68	7.7
1/4-20	66	7.6	8	10.9	12	16.3
1/4-28	76	8.6	10	13.6	14	19.0
5/16-18	11	15.0	17	23.1	25	34.0
5/16-24	12	16.3	19	25.8	29	34.0
3/8-16	20	27.2	30	40.8	45	61.2
3/8-24	23	31.3	35	47.6	50	68.0
7/16-14	30	40.8	50	68.0	70	95.2
7/16-20	35	47.6	55	74.8	80	108.8
1/2-13	50	68.0	75	102.0	110	149.6
1/2-20	55	74.8	90	122.4	120	163.2
9/16-12	65	88.4	110	149.6	150	204.0
9/16-18	75	102.0	120	163.2	170	231.2
5/8-11	90	122.4	150	204.0	220	299.2
5/8-18	100	136	180	244.8	240	326.4
3/4-10	160	217.6	260	353.6	386	525.0
3/4-16	180	244.8	300	408.0	420	571.2
7/8-9	140	190.4	400	544.0	600	816.0
7/8-14	155	210.8	440	598.4	660	897.6
1-8	220	299.2	580	788.8	900	1,244.0
1-12	240	326.4	640	870.4	1,000	1,360.0






NOTES

- These torque values are to be used for all hardware excluding: locknuts, self-tapping screws, thread forming screws, sheet metal screws and socket head setscrews.
- Recommended seating torque values for locknuts:
 - for prevailing torque locknuts - use 65% of grade 5 torques.
 - for flange whizlock nuts and screws - use 135% of grade 5 torques.
- Unless otherwise noted on assembly drawings, all torque values must meet this specification.

Common Hardware Types



Wrench & Fastener Size Guide

 1/4" Bolt or Nut Wrench—7/16"	 5/16" Bolt or Nut Wrench—1/2"	 3/8" Bolt or Nut Wrench—9/16"	 7/16" Bolt or Nut Wrench (Bolt)—5/8" Wrench (Nut)—11/16"	 1/2" Bolt or Nut Wrench—3/4"
M6 Bolt or Nut Wrench—10mm	M8 Bolt or Nut Wrench—13mm	M10 Bolt or Nut Wrench—17mm	M12 Bolt or Nut Wrench—19mm	M14 Bolt or Nut Wrench—22mm

